

Bose® 3•2•1 and 3•2•1 GS Home Entertainment Systems

Owner's Guide August 18, 2003

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The AV3-2-1 and AV3-2-1 GS media centers are to be used only with the PS3-2-1 or PS321 powered speaker system (Acoustimass® module).



WARNING: To reduce the risk of fire or electric shock, do not expose the system to rain or moisture.



CAUTION

RISK OF ELECTRICAL SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



AVIS

RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR



ATTENTION: POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE), IL NE SE TROUVE ÀL'INTÉRIEURAUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.

These CAUTION marks are located on the bottom of your 3•2•1 home entertainment system media center and the rear panel of the Acoustimass module:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle, as marked on the system, is intended to alert the user to the presence of important operating and maintenance instructions in this owner's guide.



A CAUTION: To prevent electric shock, match wide blade of plug to wide slot, insert fully.



A CAUTION: No naked flame sources, such as lighted candles, should be placed on the apparatus.

Class 1 laser product

The DVD player contained within the media center is classified as a CLASS 1 LASER PRODUCT according to EN60825-1:1994 + A11. The CLASS 1 LASER PRODUCT label is located on the bottom of the media center.





A CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The DVD player should not be adjusted or repaired by anyone except properly qualified service personnel.

Batteries Batteries

Please dispose of used batteries properly, following any local regulations. Do not incinerate.



Please read this owner's guide

Please take the time to follow this owner's guide carefully. It will help you set up and operate your system properly, and enjoy all of its advanced features. Save your owner's guide for future reference.

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Before you begin

Thank you for purchasing the Bose® 3•2•1 or 3•2•1 GS home entertainment system, which offers superb sound, elegance, and simplicity in an advanced home audio setup. Using Bose proprietary signal processing technology, the 3•2•1 systems provide improved spaciousness from stereo recordings, and bold movie effects from surround-encoded materials. Yet its few parts require little effort to set up, so you can enjoy your new system's performance right away.

Your system includes:

- Integrated AM/FM tuner and DVD/CD player in a small console
- Small, easy-to-place shelf speakers and an attractive floor-standing Acoustimass® module
- Easy-to-use infrared remote control
- Console input jacks for connecting other source components (such as a VCR, DSS, CD changer, or tape deck)

Selecting compatible discs

The DVD/CD player built into the 3•2•1 media center can play the following types of discs identified by their corresponding logos:

• Video DVDs



- Audio CDs
- CD-R and CD-R/Ws
- MP3 on CD

Check for region code compatibility

For a DVD player and DVD disc to be compatible, their region code numbers must match. These numbers are allocated according to where the player and disc are sold. The 3•2•1 home entertainment system has a region code which must also match the DVD discs. The user cannot change the 3•2•1 home entertainment system's region code. Therefore, the system should be purchased in the region in which it will be used.

Check the region code number on the carton of the 3•2•1 home entertainment system or on the bottom of the media center that comes in the carton. Then be sure to choose only DVD discs that show the same region number on the disc label or front cover. For example, a Region 1 DVD disc should display the following mark:

MP3 playability

To be compatible with the 3•2•1 or 3•2•1 GS home entertainment systems, MP3s must meet the following criteria: 1) All tracks must be burned in a single closed session; 2) The disc format must be ISO9660; 3) Each file must have a ".mp3" extension and have no other periods in the filename; 4) Although the system does not display ID3 tag information, the system may not recognize files with tags higher than ID3 (ID3v1).

How text is used in this owner's guide

These instructions refer to buttons on the remote control and on the media center front panel, menu items that appear on your TV screen, and status indicators on the media center display. To help you differentiate them:

Button names appear in bold type. If a button has only a symbol, that alone will be used.

On-Screen Display messages appear in bold type with a line above and below.

MEDIA CENTER DISPLAY items are represented by bold capitalized type

Important guidelines for trouble-free performance of your home entertainment system (and its additional components) are shown in gray boxes.

Glossary of terms

□□□ – The trademarked logo for Dolby® Digital, a perceptual coding system for audio, developed by Dolby Laboratories. Dolby Digital is the most common means of encoding audio for DVD-Video.

Aspect Ratio – The shape of the rectangular picture in a TV set. It is the width of the picture relative to the height. Our standard TV picture, in terminology used by that industry, is 4 units wide by 3 units high, or 4:3 (read as 4 by 3) in aspect ratio. There are currently two standard TV aspect ratios, 4:3 and 16:9.

Chapter - In DVD-Video, a division of a title. Technically called a part of title (PTT).

Composite Video – A single video signal that contains luminance, color, and synchronization information. NTSC and PAL are examples of composite video systems.

Dolby* – a source of audio encoder technology.

Dolby Digital (also called 5.1) – a type of multi-channel surround sound format used on discs.

DOLBY

DIGITAL – the logo representing the above.

DTS - a type of multi-channel surround sound format used on discs.



- the logo representing the above.

DVD – An acronym that is most commonly known to mean Digital Video Disc or Digital Versatile Disc. The audio/video/data storage system based on 12- and 8-cm optical discs.

DVD Video – A standard for storing and reproducing audio and video on DVD-ROM discs, based on MPEG video, Dolby Digital and MPEG audio, and other proprietary data formats.

IR – An acronym for infrared. Pertains to the type of remote that sends/receives commands on an infrared light beam.

Letterbox – The projected aspect ratio of feature films is often 16:9 rather than the 4:3 aspect ratio of most TVs. Therefore, it is becoming common practice to transfer films to video with black borders at the top and bottom of the picture. The film picture becomes a "letterbox" within the video.

^{*}Dolby and the double-D symbol are trademarks of Dolby Laboratories. Manufactured under license from Dolby Laboratories.

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MPEG Layer-3 audio compression technology licensed by Fraunhofer IIS and THOMSON multimedia.

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MPEG – a type of data compression used for audio or video storage on disc.

MP3 – MPEG-1 Layer III audio. This is a compressed audio format that allows you to record many hours of music on a single CD.

NTSC – An acronym for National Television System Committee. The organization that developed both the American Black & White and Color television system.

PAL – An acronym for Phase Alternate Line. This is one of several composite video systems. The PAL format is used extensively in Western Europe.

PCM – An uncompressed, digitally coded representation of an analog signal. This is the form of the digital audio signal used for both CD and laserdisc. It is a serial data stream that is coded for transmission or recording. PCM is also used for many other types of serial data communications.

S-video – A video interface standard that carries separate luminance and chrominance signals, usually on a four-pin mini-DIN connector. Also called Y/C. The quality of S-video is significantly better than composite video since it does not require a comb filter to separate the signals. Most high-end televisions have S-video inputs.

Title – numbered elements of the DVD contents, which may include more than the movie alone.

Track – Individual selections recorded on an audio tape or disc.

For your records

Serial numbers are located on the bottom of the media center and the rear of the Acoustimass® module. Please have your serial number ready before contacting Bose® customer service.

Media center serial number:		
Acoustimass module serial number:		
Dealer name:		
Dealer phone:	Purchase date:	

We suggest you keep your sales receipt and product registration together with this owner's guide.

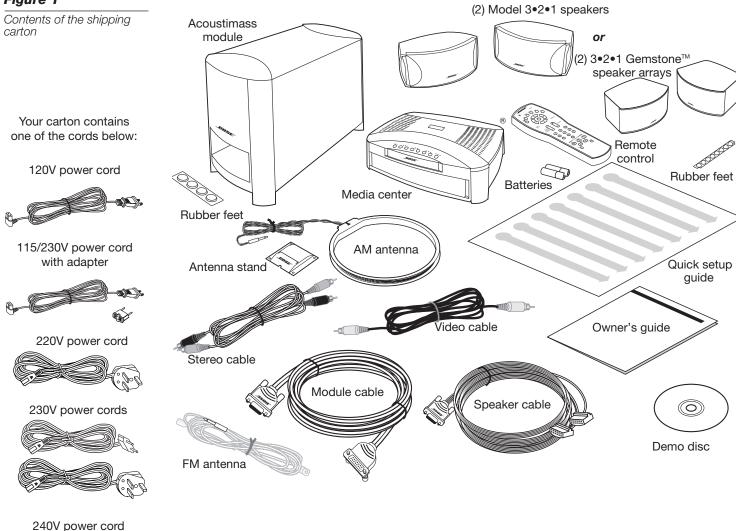
Unpacking

Carefully unpack your system. Save all packing materials, which provide the safest way to transport your system. Check to be sure your system includes the parts shown in Figure 1.

If any part of the system appears damaged, do not attempt to use it. Notify Bose or your authorized Bose® dealer immediately. For Bose contact information, refer to the address sheet included in the carton.

WARNING: To avoid danger of suffocation, keep the plastic bags out of the reach of children.

Figure 1



Finding the product serial numbers

Now is a good time to find the serial numbers on the bottom of the media center and Acoustimass® module. Copy those numbers onto your product registration card and in the space provided on page 7.

Selecting locations for your 3•2•1 home entertainment system components

Use the following guidelines to choose locations and positions for the components of your 3•2•1 home entertainment system. Keep in mind that all of the system components will be connected to the media center. The Acoustimass® module is the only part of the system that will connect to a power outlet.

Note: While these guidelines are offered to provide the best system performance, you may find other placement choices that are more convenient and provide the sound you enjoy.

Placing the media center

A CAUTION: Do not block any ventilation openings. For reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation. For example, do not place the product on a bed, sofa, or similar surface that may block the ventilation openings. Do not put it in a built-in system, such as a bookcase or cabinet that may keep air from flowing through its ventilation openings.

- Place the media center where nothing obstructs opening the disc tray on its front panel.
- Make sure the media center will be placed close enough to the Acoustimass module and the speakers so that all the cables will reach.
- Make sure the media center will be placed close enough to additional source components (TV, tape player, VCR) so that all the cables will reach.

Placing the 3•2•1 speakers

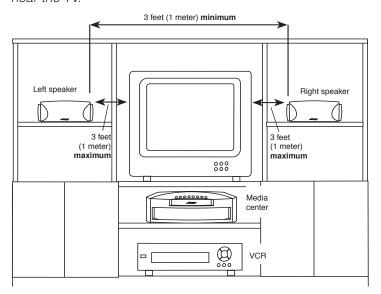
Choosing a good location for the speakers will allow you to experience the audio surround effects that your 3•2•1 home entertainment system is designed to deliver.

Place the two speakers either on top of the TV or at equal distance to the left and right of the TV screen (Figure 2). Keep both speakers at approximately the same height.

Note: The speakers are magnetically shielded to prevent interference when they are on or near the TV.

Figure 2

Placement of the media center and 3•2•1 or 3•2•1GS speakers in an entertainment unit



Place each speaker a maximum of 3 feet (1 meter) away from the edge of the TV screen. Placing the speakers more than 3 feet away from the TV can cause the sound to become separated from the picture.

If you are using a bookshelf or a home entertainment unit, place each speaker at the front edge of its shelf. Positioning the speakers too far back in an enclosed space can change the overall quality of sound and alter the movie sound effects.

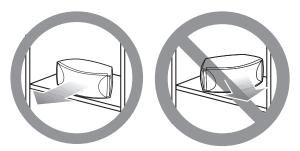
The speakers must be placed at least 3 feet (1 meter) apart from each other in order to optimize the surround sound experience.

WARNING: Choose a stable and level surface for both speakers. Vibration can cause the speakers to move, particularly on smooth surfaces like marble, glass, or highly polished wood. If you are placing the speakers on a flat surface, be sure to attach the smaller of the two sets of supplied rubber feet to the bottom surface. You may obtain additional rubber feet (part number 178321) from Bose® customer service. To contact Bose, refer to the list of offices included in the product carton.

Be sure each 3•2•1 or 3•2•1 *GS* speaker faces straight ahead toward the listening area. Do not place the speakers at an angle (Figure 3).

Figure 3

Recommended placement of the 3•2•1 and 3•2•1 GS speakers, facing straight ahead toward the listening area, not angled

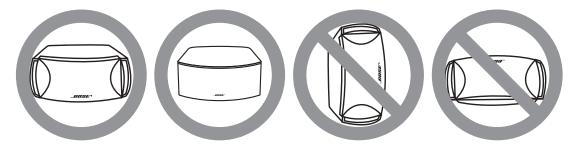


Note: Angling one or both speakers into or away from the listening area significantly alters system performance.

The 3•2•1 and 3•2•1 GS speakers are designed to sit only on their bottom surface, with the Bose logo right-side up (Figure 4).

Figure 4

Recommended orientation of the speakers, with Bose logo upright, not angled or upside down

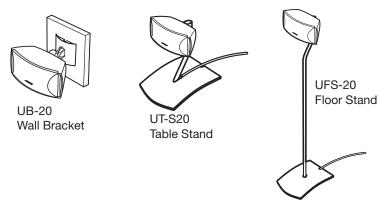


Speaker Accessories

The 3•2•1 and 3•2•1 GS speakers can also be mounted on optional Bose brackets, table stands, or floor stands (Figure 5). For ordering information, refer to "Accessories" on page 46.

Figure 5

Speaker accessories



Additional cables

To contact Bose for additional or longer cables, refer to the list of offices included in the product carton.

Placing the Acoustimass® module

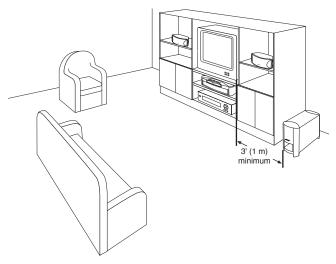
Consider the guidelines below when choosing a location for the Acoustimass® module.

Make sure to place it:

- within reach of the cables to the music center and an AC (mains) power outlet
- at the same end of the room as the TV and the speakers (Figure 6)
- a minimum of 3 feet (1 meter) from the TV, to prevent interference from the module, which is not magnetically shielded

Figure 6

3-foot distance between the Acoustimass module and the TV



Attach the medium-sized rubber feet to the bottom of each foot on the module. The rubber feet provide increased stability and protection from scratches.



A CAUTION: The Acoustimass module generates a magnetic field. Although this is not an immediate risk to your video tapes, audio tapes, and other magnetic media, you should not store any of these items directly on or near the module.

Keep the port and ventilation openings free and unimpeded:

- Choose a location that is convenient (under a table, behind a sofa or chair, screened by drapes) but will not block the ventilation openings of the module.
- Aim the port of the module into the room or along the wall. This prevents a blocked port or over-powering bass.
- Stand the Acoustimass module on its feet. Do not lay it on its side or stand it on either end (Figure 7).

Figure 7

Recommended orientation for the module



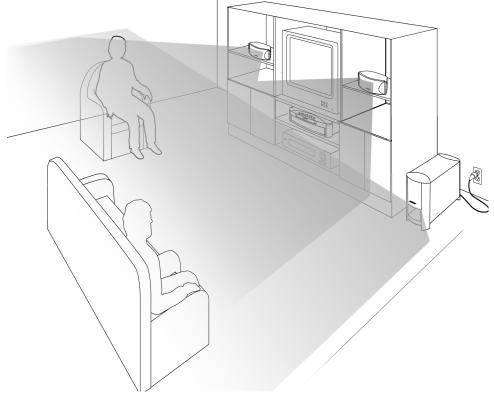
A CAUTION: Do not block the openings on the back of the module, which provide ventilation for the built-in circuitry.

When the system setup is completed

With the speakers and media center placed as directed, you can enjoy the freedom to sit, recline, or move about in the room without missing a note.

Figure 8
System placement for ideal

coverage



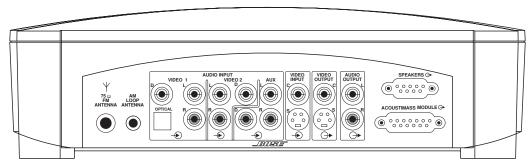
CAUTION: Be sure to read the section on making the connections before you plug in the system.

Making the connections

The components of the 3•2•1 and 3•2•1 *GS* home entertainment systems are connected through the media center, using custom cables supplied with the system. The jacks on the rear of the media center are labeled (Figure 9), to help get everything hooked up right the first time.

Figure 9

Connection panel on the rear of the media center



CAUTION: Do not plug the music system into an AC power (mains) outlet until all the components are connected.

Additional cables

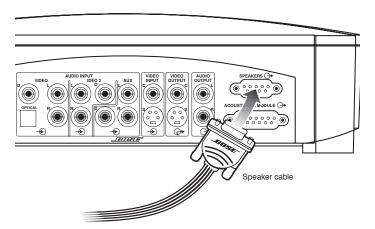
If additional audio cables or longer cables are needed to make these connections, contact Bose. Before you call, refer to the list of offices included in the product carton.

Connecting the 3•2•1 speakers

1. Insert the single-plug end of the speaker cable into the SPEAKERS connector on the rear panel of the media center (Figure 10). Tighten the screws on either side of the plug.

Figure 10

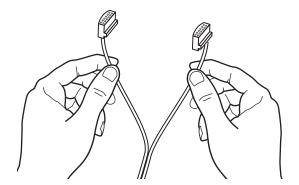
Connecting the speaker cable to the media center



2. Grasp the two connectors at the other end of the speaker cable and pull the two strands of cable apart as much as necessary to reach each speaker (Figure 11).

Figure 11

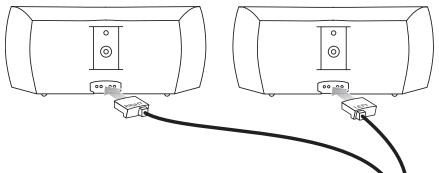
Pulling apart the left and right strands of speaker cable



- 3. Plug the connector labeled LEFT into the jack on the rear of the left speaker (Figure 12).
- 4. Plug the connector labeled RIGHT into the rear jack on the right speaker.

Figure 12

Making the left and right speaker connections



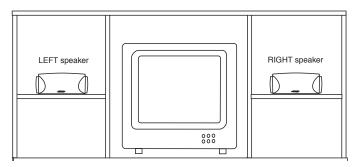
Note: When properly inserted, there will be a small gap between the plug and the speaker panel.

Left and right speaker placement

For optimal audio surround effects, be sure to place the LEFT speaker to the left of the TV as you face it. Place the right speaker to the right of the TV as you face it (Figure 13).

Figure 13

Left and right speaker placement

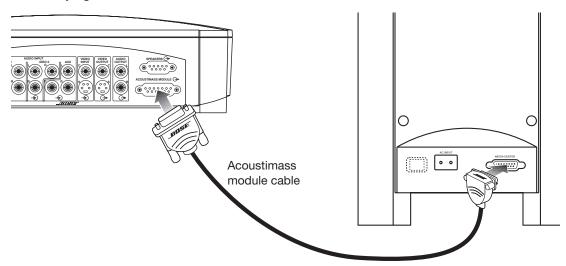


Connecting the Acoustimass® module

- 1. Locate the jack labeled MEDIA CENTER on the rear of the Acoustimass® module. Insert the right-angle connector (Figure 14) of the module cable into the MEDIA CENTER jack.
- 2. Locate the jack labeled ACOUSTIMASS MODULE on the rear panel of the media center. Insert the other end of the module cable into the ACOUSTIMASS MODULE jack.
- 3. Firmly tighten the two screws at each end of the module cable.

Figure 14

Connecting the Acoustimass module to the media center



WARNING: Do not plug the Acoustimass module's power cord into the wall outlet until all other system connections have been made.

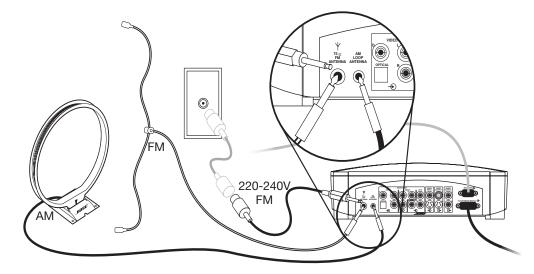
Attaching the supplied antennas

On the rear panel of the media center there are jacks for AM and FM antennas (Figure 15). Unwind the wires for each antenna to provide the best reception.

Note: An outdoor antenna may be used in place of the two that are supplied. To add an outdoor antenna, consult a qualified installer. Follow all safety instructions supplied with the antenna.

Figure 15

Adding the AM and FM antennas



FM antenna

Plug the connector into the FM antenna jack on the media center rear panel. Spread out the antenna arms at the other end and move them around to establish optimum FM reception. Extend the antenna as far from the media center and other external equipment as possible.

AM antenna

- 1. Plug the connector into the AM antenna jack on the media center.
- 2. Move the antenna loop as far as possible, at least 20 inches (50 centimeters) from the media center and at least 4 feet (1.2 meters) from the Acoustimass® module. Experiment with positioning the loop for optimum AM reception.
- 3. Follow the instructions enclosed with the AM loop antenna to stand it on the supplied base, or mount it to a wall.

Connecting cable FM radio

Some cable TV providers make FM radio signals available through the cable service to your home. This connection is made to the external FM jack on the back panel of the media center. To connect to this service, contact your cable TV provider for assistance.

▶ **Note:** Make sure that the cable radio installation includes a TV/FM splitter so that only the FM radio band, not the cable TV band, is received by the media center. If necessary, contact your cable company.

Connecting your TV to the media center

- Note: If you will be using the 3•2•1 home entertainment system with both a TV and a VCR, skip this section and go to "Connecting your TV and VCR to the media center" on page 19.
- Note: If your TV does not have an audio output jack, see "If your TV does not have audio output jacks" on page 21.
 - 1. Attach one end of the supplied video cable (yellow) to the VIDEO OUTPUT jack on the back of the media center (Figure 16).
 - Attach the other end of the video cable (yellow) into one of the video input jacks on your TV.

Make note of the video input jack you use

Most TVs have several video input jacks (for example: Video 1, Input 1, or Aux). When you connect the yellow video cable to one of these jacks, make note of the name of the jack you choose. You will need to select the corresponding video input setting on your TV in order to play a DVD. See "Selecting the correct video input on your TV" below.

- 3. Locate the AUDIO INPUT jacks on the back of the media center. Under the AUDIO INPUT heading, there are jacks labeled VIDEO 1, VIDEO 2, and AUX.
- 4. Attach the supplied stereo cable to the media center by inserting the white plug into the jack labeled VIDEO 1 (L), and the red plug into the jack labeled VIDEO 1 (R).
- 5. Attach the other end of the stereo cable to the TV by inserting the white plug into the AUDIO OUTPUT (L) jack, and the red plug into the AUDIO OUTPUT (R) jack.

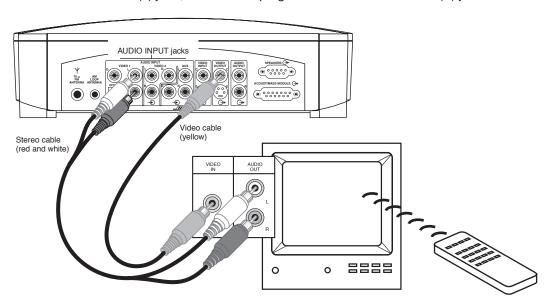


Figure 16

Connecting your TV to the media center

Selecting the correct video input on your TV

In order to play a DVD, your television must be set to receive signals from the correct video input jack.

Most TVs have a TV/VIDEO, INPUT, or AUX IN button for selecting the video input. When the TV is on, the display "VIDEO 1", "VIDEO 2", or "AUX" will usually appear in a corner of the screen to indicate which video input is currently selected.

Before playing a DVD, locate the name of the video input jack (on the TV) that you have connected the yellow video cable to, then turn the TV on and select the video input (on the screen) that matches the name of that jack. If you are unable to select the correct video input setting on your television, please consult your TV's owner's guide.

S-video as an alternate means to connect to the TV

An S-video input jack, provided on many TVs, delivers a higher-quality TV picture than the composite video output connection shown in Figure 16 on page 17.

To make this alternate connection, insert the end of an S-video cable from the TV into the S-VIDEO OUTPUT on the media center. This cable may be purchased from your Bose® dealer or a local electronics retailer.

- Note: Some older TVs with standard TV cable connectors do not have a composite video or an S-video input. Such TVs are not compatible with any DVD players and require use of an RF modulator for this connection, which is available at your local electronics store.
- Note: If you use S-video to connect your cable box to the media center, you must also use S-video to connect all other components (such as the TV and VCR) to the system.

Turning off the internal speakers in your TV

When you listen to TV audio through your 3•2•1 home entertainment system, the speakers in your TV should not be on. Use the on-screen menu on your TV to locate the setting for INTERNAL SPEAKERS and select OFF. (Refer to your TV owner's guide for instructions).

Note: In some models, when the TV's internal speakers are turned off, you may need to turn up the TV's volume by 75% to 100% in order to hear audio from the 3•2•1 home entertainment system. (See your TV owner's guide for details.)

If your TV does not have an option to turn off the internal speakers, reduce the volume on your TV to its lowest setting.

Connecting your TV and VCR to the media center

There are two options for connecting your TV and VCR to the media center. Before you proceed, you must determine if your TV has audio output jacks. Consult your TV owner's guide if you need assistance.

If your TV has audio output jacks

If your TV has audio output jacks, you can directly route the TV audio to the 3•2•1 home entertainment system.

- 1. Attach one end of the supplied video cable (yellow) to the VIDEO OUTPUT jack on the back of the media center (Figure 17).
- 2. Attach the other end of the video cable (yellow) into one of the video input jacks on your TV.

Make note of the video input jack you use

Most TVs have several video input jacks (for example: Video 1, Input 1, or Aux). When you connect the yellow video cable to one of these jacks, make note of the name of the jack you choose. You will need to select the corresponding video input setting on your TV in order to play a DVD. See "Selecting the correct video input on your TV" on page 20.

- 3. Locate the AUDIO INPUT jacks on the back of the media center. Under the AUDIO INPUT heading, there are jacks labeled VIDEO 1, VIDEO 2, and AUX.
- 4. Attach the supplied stereo cable to the media center by inserting the white plug into the jack labeled VIDEO 1 (L) and the red plug into the jack labeled VIDEO 1 (R).
- 5. Attach the other end of the stereo cable to the TV by inserting the white plug into the Audio Out (L) jack and the red plug into the Audio Out (R) jack.

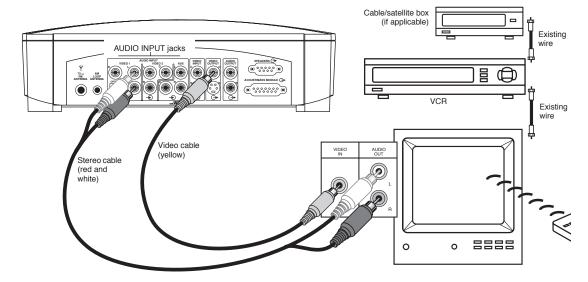


Figure 17

Connecting your TV and VCR to the media center using the TV's audio output

Selecting the correct video input on your TV

In order to play a DVD, your television must be set to receive signals from the correct video input jack.

Most TVs have a TV/VIDEO, INPUT, or AUX IN button for selecting the video input. When the TV is on, the words "VIDEO 1", "VIDEO 2", or "AUX" will usually appear in a corner of the screen to indicate which video input is currently selected.

Before playing a DVD, locate the name of the video input jack (on the TV) that you have connected the yellow video cable to, then turn the TV on and select the video input (on the screen) that matches the name of that jack. If you are unable to locate the video input setting on your television, please consult your TV owner's guide.

Turning off the internal speakers in your TV

When you listen to TV audio through your 3•2•1 home entertainment system, the speakers in your TV should not be on. Use the on-screen menu on your TV to locate the setting for INTERNAL SPEAKERS and select OFF. (Refer to your TV owner's guide for instructions).

Note: In some models, when the TV's internal speakers are turned off, you may need to turn up the TV's volume setting by 75% to 100% in order to hear audio from the 3•2•1 home entertainment system. (See your TV owner's guide for details.)

If your TV does not have an option to turn off the internal speakers, you may need to adjust both the 3•2•1 system volume and your TV volume until you find a level that produces the desired sound.

If your TV does not have audio output jacks

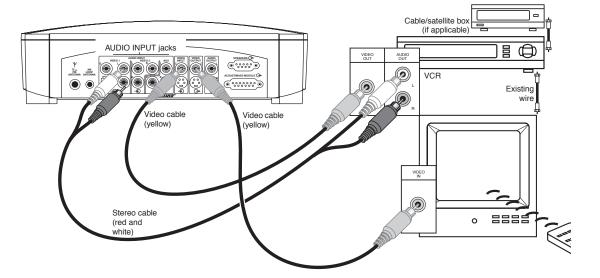
If your TV does not have audio output jacks, you will need to import audio to the 3•2•1 home entertainment system through a secondary source, such as a VCR. For this type of connection, you will need one additional video cable, which can be purchased at your local electronics store.

- Attach one end of the supplied video cable (yellow) into the Video Output jack on your VCR.
- 2. Attach the other end of the supplied video cable (yellow) to the VIDEO INPUT jack on the back of the media center.
- 3. Locate the AUDIO INPUT jacks on the back of the media center. Under the AUDIO INPUT heading, there are jacks labeled VIDEO 1, VIDEO 2 and AUX.
- 4. Attach the stereo cable to the media center by inserting the white plug into the jack labeled VIDEO 1(L) and the red plug into the jack labeled VIDEO 1(R).
- 5. Attach the other end of the stereo cable to the VCR by inserting the white plug into the Audio Out (L) jack and the red plug into the Audio Out (R) jack.
- 6. Attach a second video cable to the VIDEO OUTPUT of the media center and the Video Input jack on your TV.

Make note of the video input jack you use

Most TVs have several video input jacks (for example: Video 1, Input 1, or Aux). When you connect the yellow video cable to one of these jacks, make note of the name of the jack you choose. You will need to select the corresponding video input setting on your TV in order to play a DVD. See "Selecting the correct video input on your TV" on page 22.

Figure 18
Connecting your TV and VCR to the media center with no TV audio output



Selecting the correct video input on your TV

In order to play a DVD, your television must be set to receive signals from the correct video input jack.

Most TVs have a TV/VIDEO, INPUT, or AUX IN button for selecting the video input. When the TV is on, the words "VIDEO 1", "VIDEO 2", or "AUX" will usually appear in a corner of the screen to indicate which video input is currently selected.

Before playing a DVD, locate the name of the Video Input jack (on the TV) that you have connected the video cable to, then turn the TV on and select the video input (on the screen) that matches the name of that jack. If you are unable to locate the video input setting on your television, please consult your TV owner's guide.

Note: Some combination TV/VCR units may not work with the Bose 3•2•1and 3•2•1 GS home entertainment systems. Please refer to your TV/VCR owner's manual for information.

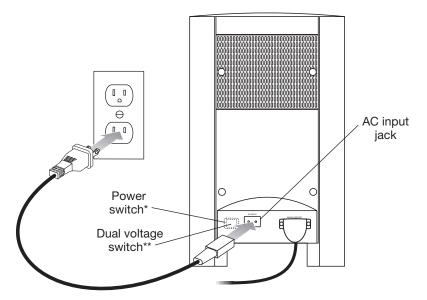
Note: A stereo or Hi-Fi VCR is required for optimal sound performance. If your VCR only has one audio output and is not labeled Stereo or Hi-fi, you have a mono VCR and require a Y-adapter cable (available at electronics stores) to connect audio to the media center. Then select Mono decoding (see "Audio Setup menu" on page 40) so your TV will simulate surround sound effects. Otherwise you will hear mono sound from both speakers.

Making the final power connection

CAUTION: For dual voltage models only, be sure to set the dual voltage switch on the back of the Acoustimass® module to the appropriate voltage for your area (115V or 230V) before connecting to power. If you are not sure about the proper voltage for your area, consult your local electrical authorities.

To make the final connection, insert the small connector end of the power cord into the AC INPUT jack on the module. Insert the large end of the cord into an AC power (mains) outlet (Figure 19).

Figure 19
Connecting the power cord



*On 220-240V models only; ** On 115/230V dual voltage models only

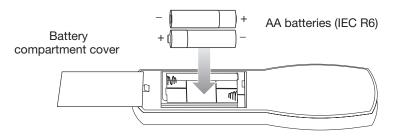
Note: On 220-240V models only, turn the Acoustimass module POWER switch to on (I).

Installing remote control batteries

- 1. On the back of the remote, slide open the battery compartment (Figure 20).
- 2. Insert the two supplied AA (IEC-R6) 1.5V batteries, or their equivalent, as shown. Match the plus (+) and minus (–) marked on the batteries with the plus (+) and minus (–) inside the battery compartment.
- 3. Slide the battery compartment cover back into place.
- **Note:** Replace the batteries when the remote control stops operating or its range seems reduced.

Figure 20

Installing the batteries



Connecting other sources

The 3•2•1 home entertainment system is designed to deliver high-quality home entertainment free of complexity and complications. But it also provides flexibility for you to add other components in a variety of configurations.

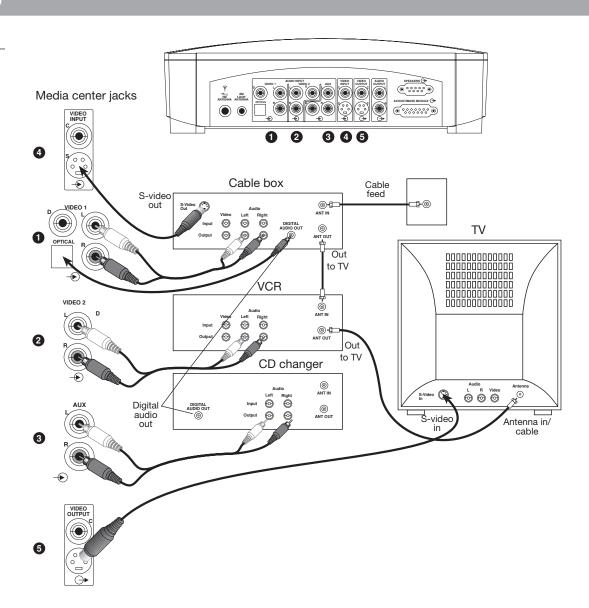
If you plan to use your 3•2•1 home entertainment system with other components, please read and consider the important guidelines below.

Guidelines for connecting other components

- You can connect the audio output of up to three components, including your TV, directly to the media center using the VIDEO 1, VIDEO 2, and AUX input jacks on the rear panel.
- Each input includes jacks for Left and Right analog audio and a coaxial jack for digital audio. In addition, the VIDEO 1 input provides an optical jack for digital audio.
- The jacks marked VIDEO 1 and VIDEO 2 are set automatically for movie EQ. If you connect
 a video source to AUX, you can still set sound for movie EQ in the Settings on-screen
 menu.
- When connecting a component's audio to the media center jacks, remember to:
 - use standard RCA audio cables
 - match the red connector to the right channel (R) and the white (or black) connector to the left channel (L)
- For further details on making the video connections between your VCR and TV, refer to the manuals for those video components.
- Note: The recommendations contained in this owner's guide are basic suggestions for connecting external devices to our system. Instructions and terminology pertinent to these external devices may vary, depending on the manufacturer. Consult the external device's original owner's guide for clarification on its setup and usage prior to making any connection.

Figure 21

Advanced analog and digital connections, using S-video pass-through to the media center

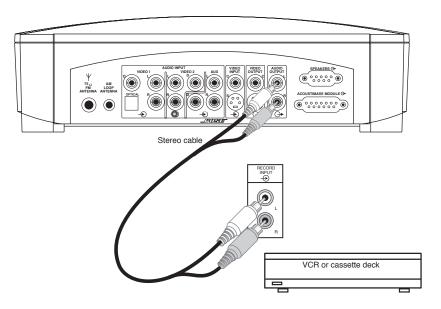


Connecting recording equipment

The rear panel of the media center provides audio output (RECORD) connections for audio recording devices such as a cassette deck (Figure 22).

Figure 22

AUX input connections

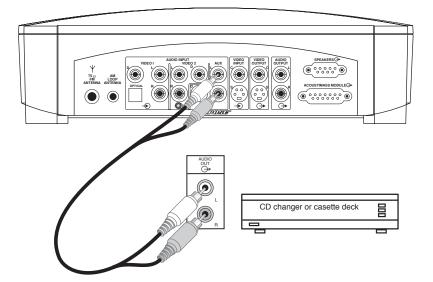


Connecting other playback equipment

Other playback components, such as an audio CD changer, can be connected to the AUX inputs on the rear panel of the media center (Figure 22).

Figure 23

AUX input connections



Connecting digital audio components

Your other audio components may feature a digital audio output. If so, you can connect an optical output to the OPTICAL jack of the VIDEO 1 INPUT or a coaxial output to the coaxial jacks of VIDEO 1, VIDEO 2, or AUX on the rear panel of the media center. Use an optical digital cable or coaxial cable to make these connections.

Note: The digital audio inputs of this system are not able to decode a DTS bitstream from an external component.

Turning on the system

You can turn your system on and off by pressing the **On/Off** button on the remote or the **Power** button on top of the media center. Or, you can press any source button on the remote to select the source and turn the system on at the same time.

If you followed the instructions in the Setup section of this guide, you can turn on the media center by simply pressing the **Video 1** button on your remote.

To turn on a component connected to the media center, use the remote or power switch for that specific component, or the advanced remote supplied with the 3•2•1 GS system.

▶ Note: The basic 3•2•1 remote and media center cannot switch components, such as the TV or VCR, on or off. However, the advanced remote supplied with the 3•2•1 GS system can be "taught" to do so. For additional information about the advanced remote, see "The advanced remote control" on page 28.

The remote control

Note: The basic functions of the advanced remote are the same as the 3•2•1 remote described below.

Buttons on the remote control are grouped according to function. Other buttons on the media center provide some of the same controls described below.

POWER and MUTE controls



Switches the system on or off.

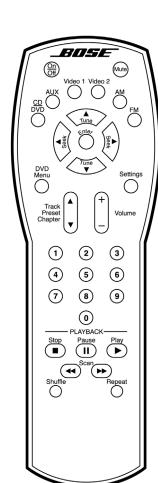
Unmutes the system volume.



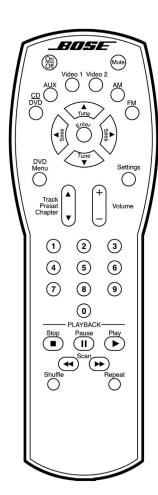
Mutes/unmutes the system volume.

SOURCE controls

SOURCE	controls
CD DVD	Selects the built-in CD/DVD player and turns the system on. Unmutes the system volume.
AUX	Selects AUX as the sound source and turns the system on. Unmutes the system volume.
Video 1	Selects Video 1 as the sound source and turns the system on. Unmutes the system volume.
Video 2	Selects Video 2 as the sound source and turns the system on. Unmutes the system volume.
AM	Selects the built-in tuner and turns the system on to the previously selected AM station. Unmutes the system volume.
FM	Selects the built-in tuner and turns the system on to the previously selected FM station.



SOURCE and MENU controls





Tunes the AM/FM radio up/down to the next higher/lower frequency.

In an on-screen menu, selects the next item, up or down.



Seeks forward/backward to the next strongest radio station. In an on-screen menu, changes the setting of a selected menu item.



Enters submenus. Also submits custom settings, choices, or entries in conjunction with other buttons.



Displays the menu of the DVD disc currently loaded in the tray, as the particular DVD allows.



Displays or exits the Bose 3•2•1 system on-screen menus, provided that the correct Video Input setting is selected on the TV. See "Selecting the correct video input on your TV" on page 17.



Skips to the next/previous DVD chapter, radio station preset, or CD track.



Raises or lowers the system volume.

- + Unmutes the system volume. Raises the volume.
- Lowers the system volume while it is muted.



Each button gives you access to a similarly numbered DVD chapter, CD track, or radio station preset.



(0)

When selecting numbers 1 through 9, entering a zero before the number ensures the fastest response.

PLAYBACK controls



Stops the disc player and, *for DVDs only*, temporarily holds the place where the disc stopped. Press **Stop** again and the player moves to the beginning of the disc.



Pauses the disc player in place. After 20 minutes, switches to Stop.



Starts the disc player.



Scans back or forward for DVD chapters, CD tracks, or the next strongest radio station.



Plays audio CD tracks (not DVD chapters) in varied order. Press again to cancel this mode.



Repeats a CD, CD track, DVD chapter, or DVD title until the button is pressed again.

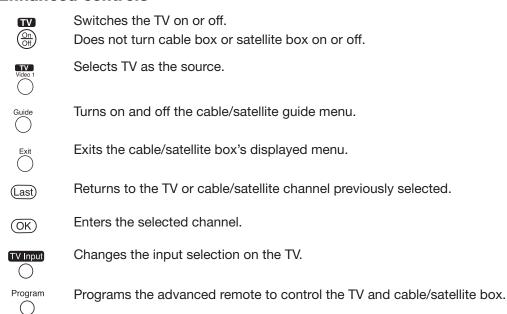
The advanced remote control (Supplied with the 3•2•1 GS system or the 3•2•1 system in Europe only)

If you purchased the 3•2•1 GS system, your system came with the advanced remote control which can be programmed to control your TV and/or cable/satellite box. To contact Bose for information on how to purchase the remote separately, refer to the address sheet included with the system.

Note: This remote functions as described on pages 26 and 27, with some additional features.

Menu buttons, described on the previous page, work similarly with the cable/satellite guide menu on your TV. However, the volume button on this remote does not affect the TV volume.

Enhanced controls



Programming the advanced remote

Find the four-digit setup code for your TV and cable/satellite box in the Appendix on page 48

- Note: More than one code may work with your particular brand product. If you notice a lack of response or limited functionality after programming the remote, try a different code.
- Note: If your advanced remote flashes rapidly several times during programming, an error has occurred. Wait 7 seconds for the remote to clear and begin programming again.

To control the TV

- 1. Turn on both the 3•2•1 system and your TV.
- 2. Press and hold the **Program** and **TV On/Off** buttons for 3 seconds. The remote Source buttons will light to signal that you have entered programming mode.
- 3. Enter your TV's four-digit setup code.
- 4. Press **Program** once to complete programming. The remote will flash once to indicate successful programming. To confirm that, use the remote to change TV channels.

To control the cable/satellite box

- 1. Turn on both the 3•2•1 system and your cable/satellite box.
- 2. Press and hold the **Program** and **Guide** buttons for 3 seconds. The remote source buttons will light to signal that you have entered programming mode.
- 3. Enter your cable/satellite box's four-digit setup code.
- 4. Press **Program** once to complete programming. The remote will flash once to indicate successful programming. To confirm that, use the remote to change cable channels.



BOSE

Volume

(#)

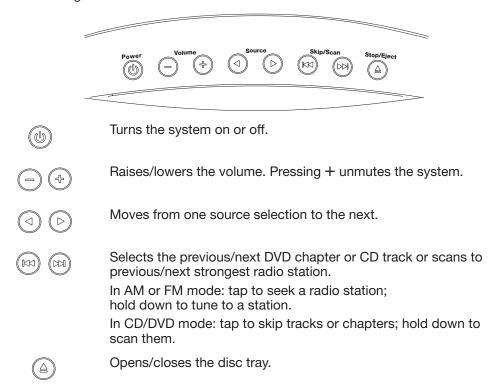
The media center



The media center has a control panel on the top, a display area on the front that indicates the current status of the system, and a DVD/CD tray that opens on the front of the console.

Control panel and buttons

The media center has eight buttons located on the top control panel. Their functions are also available through use of the remote control.

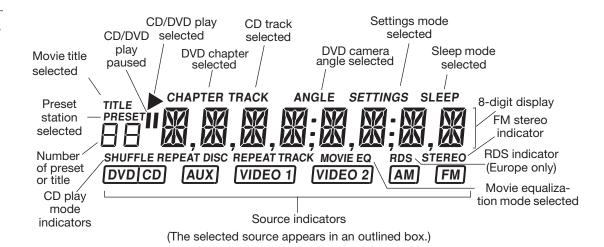


Display indicators

With the system turned on, the music center display lights up to show the current system status. Not all of the possible choices shown below will light up at once (Figure 24). The display changes with each adjustment or selection you make.

Figure 24

All of the possible symbols that may appear, depending on the current status of the system



TV on-screen menus

With both the TV and the 3•2•1 or 3•2•1 GS home entertainment system turned on, you can use menus that appear on the TV screen to choose among options for audio and video performance.

To enter the Settings menu

Before you begin, make sure you have selected the correct Video Input setting on your TV. For more information, see "Selecting the correct video input on your TV" on page 17.

Make sure that the media center and the TV are both on. Press the **Settings** button on the remote. The displayed menu will contain items related to the currently selected source. For example, if you press **Settings** while watching a DVD, you will see a menu similar to the one in Figure 25.

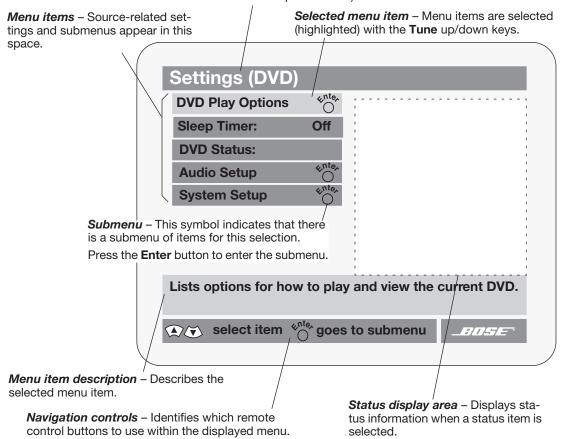
To leave the Settings menu

Press the Settings button again. The on-screen menu disappears.

Figure 25

Elements of the on-screen menu displays

Title bar – Shows the name of the menu or submenu you are using (the currently selected source is in parentheses).



To select a menu item

Use the remote control *Tune* ▲ or ▼, *Seek* ◀ or ▶, and *Enter* ○ buttons (as described on page 27) to move through these menus and make selections, as shown in Figure 25.

To change a setting

Figure 26

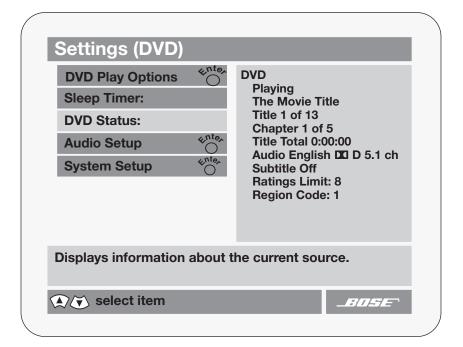
Example of changing a setting



To check the system status

Figure 27

A DVD status example



Turning your system on and off

You can turn your system on and off using the **On/Off** button ((a)) on the remote control or the power button ((a)) on top of the media center. When you turn it on with either button, the source that was played last is automatically selected.

You can also press any source button on the remote to turn the system on and select the source at the same time.

Before you play your first DVD

Before you play the first DVD:

- Check the parental control settings (see "Using the Parental Control feature to restrict future play" on page 34).
- Familiarize yourself with the system remote control, as explained on page 26.
- Make sure that the region codes for the DVD player and disc match, as explained on page 5. Check the region code number on the media center label or on the shipping carton.
- Confirm that the disc is encoded for any required features. For example, in order to display subtitles in a movie, the disc must contain subtitle information.

Selecting the correct video input on your TV

In order to play a DVD, your television must be set to receive signals from the correct video input jack.

Most TVs have a TV/VIDEO, INPUT, or AUX IN button for selecting the video input. When the TV is on, the word "VIDEO 1", "VIDEO 2", or "AUX" will usually appear in a corner of the screen to indicate which video input is currently selected.

Before playing a DVD, locate the name of the video input jack (on the TV) that you have connected the video cable to, then turn the TV on and select the video input (on the screen) that matches the name of that jack.

If you are unable to select the correct video input setting on your television, please consult your TV's owner's guide.

Loading and playing a DVD

- 1. Turn your television on.
- 2. On the remote, press the **CD/DVD** button to turn the media center on.
- 3. On the media center control panel, press the **Stop/Eject** button.
- 4. Place the DVD in the open media center tray.
- 5. Press the **Stop/Eject** button again to close the tray.

The DVD should begin to play automatically. If it does not, press **Play** on the remote.

Basic DVD operations

If you want to: Use the remote to do this:

Pause a DVD movie... Press **Pause** II).

Stop a DVD movie... Press **Stop** stop

Skip to the next/previous chapter the next/previous chapter Press Chapter $\frac{1}{P_{reset}}$ up/down.

Repeat a chapter... Press **Repeat** while playing the chapter.

Search through the movie backward or forward... Press and hold **Scan** or ...

Eject a DVD Press **Stop/Eject** to stop the disc. Press again to eject.

Using the Parental Control feature to restrict future play

You can restrict the playing of DVD movies by using the Parental Control feature.

The 8 levels of parental control correspond with the ratings on DVDs, and are usually equivalent to standard movie ratings provided by the Motion Picture Association of America (MPAA). The levels of ratings range from 1 (unrestricted audiences) to 8 (most restricted). See DVD Rating chart below.

You can activate your parental control feature by storing a password in the system. Once you have set a level of parental control, DVDs rated above the level you have selected cannot be played. The parental control setting can be changed only with the use of a password.

For further instructions on how to access the control settings, see "Locating system settings" on page 42.

Parental Control submenu

The parental control submenu provides options for restricting access to certain DVDs.

Selection:	Setting options:	What the setting affects:
Restrict Unrated Titles:	On Off	Prevents viewing of unrated titles when password is set. Allows unrated titles to play.
Change Password:		Lists options for how to create a new password or to change a current password. Passwords cannot be deleted. If you forget your password, refer to "Troubleshooting" on page 45.
Allowed Ratings:	1 to 8*	Blocks access to DVDs rated higher than the limit. Rating 1 means only DVDs rated "General" can be viewed. Rating 8 means no parental controls are set and any DVD can be viewed.

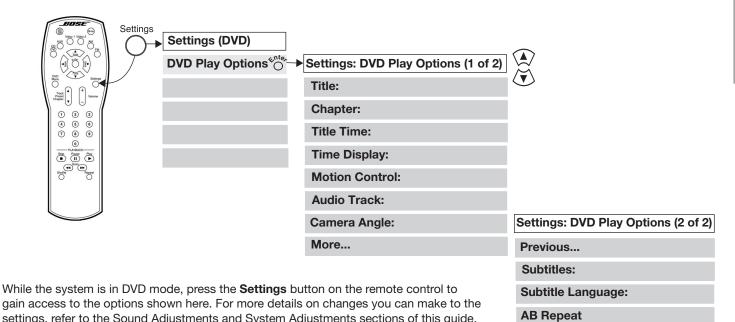
DVD Rating	General Description of Rating	MPAA Rating
*8	Unrated (generally most restricted)	
7	Adult audiences	NC-17
6	Mature audiences	R
5	Mature teenage audiences	
4	Teenage audiences	PG-13
3	Mature young audiences	PG
2	Most audiences	
1	General (unrestricted audiences)	G

DVD-specific behavior

When you select features from any options menu while watching a movie, the movie may stop, skip forward, or skip back. This behavior is determined by the DVD you are playing and does not indicate a problem with the system.

DVD play options

settings, refer to the Sound Adjustments and System Adjustments sections of this guide.



Selection:	DVD setting options:	What the setting affects:
Title:	1 of n	Chooses the movie title through use of the number keys.
Chapter:	1 of n	Chooses the movie chapter through use of the number keys.
Title Time:	h:mm:ss	Moves to that time/place in the movie.
Time Display:	Elapsed	Shows how much time the movie has played in the on-screen DVD status and on the media center display.
	Remaining	Shows how much time the movie has left to play in the on-screen DVD status and on the media center display.
Motion Control:	< <scan <<2x="" <<4x="" <br="">Pause/ Play1x/ 2x>>/ 4x>>/ Scan>></scan>	Chooses forward or backward direction and speed for DVD playback.
Audio Track:	1 English 👊 5.1 ch 2 Lang2, 3 etc.	Chooses from the available soundtracks on the DVD. Additional soundtracks may contain different languages or alternate audio formats.
Camera Angle:	1 of max.	Chooses one of the available camera angles on the DVD.
More	selection	Displays remaining menu items.
Previous	selection	Displays initial menu items.
Subtitle:	On Off	Displays subtitles, if available, along the lower screen edge. Hides subtitles. For use with Auto subtitles (refer to page 40).
Subtitle Language:	Lang1/ Lang2, etc.	Chooses one of the available languages for display of subtitles.
AB Repeat	selection	 Repeats a specified section of a movie after prompting you to: Press Enter at the beginning of the section you want to repeat. Move forward or back to another point in the film. Press Enter again. Replay ends when you press Enter, Play, or Stop.

Loading and playing a CD

- 1. On the remote, press the **CD/DVD** button.
- 2. At the media center, press the **Stop/Eject** button.
- 3. Place the audio CD in the open disc tray.
- 4. Press the **Stop/Eject** button to close the disc tray.

The CD will start to play automatically. If it does not, press **Play** .

While playing a CD, the display window on the media center indicates:

- Track number
- Track time
- Repeat or Shuffle mode

Basic CD operations

If you want to:	Use the remote to do this:
Pause a CD	Press Pause (II).
Resume play of paused CD	Press Pause again or Play .
Stop a CD	Press Stop .
Go to next track	Press Track Presst Chapter Up.
Go to beginning of current track	After track has played for several seconds, press Track for several seconds, down.
Go to a previous track	If track has played for several seconds, press Track Preset Chapter Track Preset Chapter Track Preset Chapter Track Preset Track Prese
Scan a CD backward/forward	Press and hold Scan • or •.
Randomly play CD tracks	Press Shuffle after loading a CD.
Cancel random play	Press Shuffle again, while in that mode.

Changing CD settings

While the system is in CD mode, press the **Settings** button on the remote control to gain access to the options shown here. For more details on changes you can make to the settings, refer to the Sound Adjustments and System Adjustments sections that follow in this guide.

Selection:	CD setting options:	What the setting affects:
Sleep Timer:	Off mm:ss	Timer not set. Set to turn system off (not the components) when time (01:00 to 90:00 minutes) expires.
Track:	1 of n	Chooses the CD track by number.
Track Time:	h:mm:ss	Moves to that time/place in the track.
CD Status	selection	Displays information about the CD source.
Audio Setup	selection	See Sound Adjustments page 40.
System Setup	selection	See System Adjustments page 42.

Using the sleep timer

Your system includes a sleep timer which can be set to turn your system off automatically after 1 to 90 minutes of listening to any source. This timer can be accessed through the Settings menu. See "Locating system settings" on page 42.

Note: Remember that system controls, like the sleep timer, will not turn off the TV or other sound source components.

Using the radio

Press $\overset{\mbox{\tiny M}}{\bigcirc}$ or $\overset{\mbox{\tiny FM}}{\bigcirc}$ on the remote to select the radio tuner. If the system is off, this will turn it on to the most recently selected station in that band.

Tuning

You can tune to a radio station in the following ways:

If you want to:	Do this:	
Switch bands	Press $\stackrel{\text{\tiny AM}}{\bigcirc}$ or $\stackrel{\text{\tiny FM}}{\bigcirc}$ on the remote for the band you want.	
Seek the strongest stations	Press and hold Seek ◀ or ▶ on the remote until the radio begins seeking. Release to stop at the next strongest station.	
	To stop sooner, briefly press Seek ◀ or ▶.	
	To begin seeking again without holding down the skip button, briefly press Seek ◀ or ▶ again as soon as the first seek operation stops.	
Manually tune to a station	Press Tune ▲ or ▼ on the remote.	
Select a preset station	Press Preset Track Presst Chapter	
	Press that number on the keypad.	

While the system is in AM or FM mode, and the TV is on, you can press the **Settings** button on the remote control to gain access to the options available for that band. For more details on changes you can make to the settings, refer to the Sound Adjustments and System Adjustments sections that follow in this guide.

Storing preferred stations as preset selections

For radio stations that you listen to regularly, you can assign a preset number (1-25 in the AM band and 1-25 in FM) to tune to them quickly.

To store a particular station:

- 1. Tune to that station using the **Tune**, **Seek**, or **Scan** buttons on the remote.
- 2. Press Enter. A preset number blinks while \$T0RE? appears on the media center display.
- 3. Press Enter to store the station to that blinking number.
- Note: If you want to change the station assigned to a particular preset number, you must first delete the station already assigned to it.

To erase the station assigned to a particular preset number:

- 1. Tune to the preset station.
- 2. Press **Enter**. The preset number blinks while **ERASE?** appears on the media center display.
- 3. Press **Enter** to remove the station from that assigned preset number. That number is now available for storing a different station.

Selecting a preset station

You can select preset stations using the remote control or the on-screen settings menu.

To select a preset with the remote control:

- Using the numbered keys on the remote control, press the number(s) for the preset station you want to hear.
- Press **Preset** up or down to change the preset number.

To select a preset using the settings menu:

- 1. Press on the remote to select the AM or FM source.
- 2. Press O. (Make sure your TV is on.)
- Press ▼ to select Preset.
- 4. Press ◀ or ▶ to step through the preset stations.

Changing FM settings

Selection:	FM setting options:	What the setting affects:
Sleep Timer:	Off	Timer not set.
	mm:ss	Sets timer to turn off when time (01:00 to 90:00 minutes) expires.
Station:		Tunes to that station frequency.
Preset:	1 of 25	Tunes to the stored preset station.
FM Status	selection	Displays information about the FM source.
RDS info:	On	Makes RDS information appear in media center display.
(for Europe only)	Off	Makes RDS information not appear on media center display.
Output mode:	Stereo	Always plays the FM broadcast in stereo.
	Mono	Always plays the FM broadcast in mono.
Audio Setup	selection	See Sound Adjustments page 40.
System Setup	selection	See System Adjustments page 42.

Changing AM settings

Selection:	AM setting options:	What the setting affects:
Sleep Timer:	Off mm:ss	Timer not set. Sets timer to turn off when time (01:00 to 90:00 minutes) expires. Refer to "Using the sleep timer" on page 37.
Station:		Tunes to that station frequency.
Preset:	1 of 25 Available only if presets include an AM station	Tunes to the stored preset station.
AM Status	selection	Displays information about the AM source.
Audio Setup	selection	See Sound Adjustments page 40.
System Setup	selection	See System Adjustments page 42.

Playing other sources

Turn on any component connected to the media center by using the remote for that component or controls on the component front panel.

Pressing **AUX**, **Video 1** or **Video 2** on the 3•2•1 or 3•2•1 *GS* system remote turns on the system and selects the audio for that component. Be sure a tape or disc is loaded, as needed.

Use the **Volume** \triangle or ∇ buttons on the 3•2•1 or 3•2•1 *GS* system remote control or on the media center to raise or lower the volume of the system.

To control all other functions of that source, use its remote or front panel controls. For details on what changes you can make, refer to the owner's manual that came with the component.

To record to a connected tape deck, play the built-in or connected source (AM/FM, CD, or AUX) you want to tape. Listen to the speakers to be sure you have selected the audio you want to tape. Set the tape deck to Record.

Changing settings for the other sources

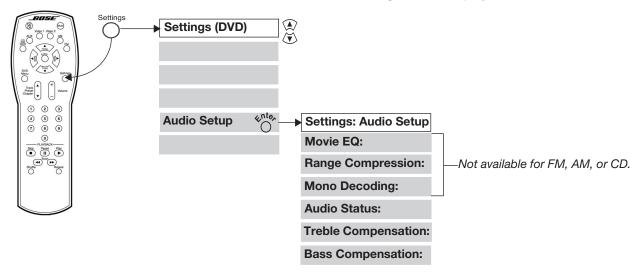
Selection:	Setting options:	What the setting affects:	
Sleep Timer:	Off mm:ss		
VID 1, VID 2, AUX Status:	selection	Displays information about the connected source.	
Audio Setup	selection	See Sound Adjustments page 40.	
System Setup	selection	See System Adjustments page 42.	

System settings

When necessary, the system settings can be changed using the System Settings menus. See "Locating system settings" on page 42.

Locating Audio Setup

- 1. Turn on both the media center and your TV.
- 2. Press the **Settings** button on the remote. A menu of the available settings for the current source will be displayed on your TV screen.
- Using the Tune ▼ button, scroll down the list and select (highlight) Audio Setup.
- 4. Press the **Enter** button and the audio settings will be displayed for the current source.



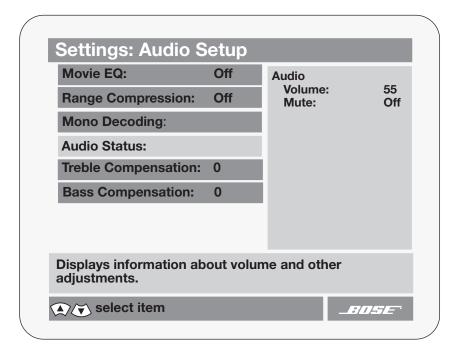
Audio Setup menu

Selection:	Setting options:	What the setting affects:	
Movie EQ:	On	Sets proper equalization for this particular movie.	
Range Compression:	On	ticularly dialogue) and are not overwhelmed by loud special effects, like an explosion. This feature is normally engaged when you turn the system on to DVD, VIDEO 1, VIDEO 2, or AUX.	
DXO 1 + 1:	1 of n	Not shown above. Indicates that a Dolby 1+1 audio track is playing.	
Mono Decoding:	On	Automatically engages Bose® Videostage® decoding circuitry when a Dolby Digital bitstream indicates that it contains a mono program. This feature can process a one-channel program in multi-speaker sound, directing the signals so that dialogue remains locked onscreen, while music and ambient effects fill the room. Mono decoding not active.	
Audio Status	selection	Displays system audio information. The example in Figure 28 on page 41 shows the DVD audio status.	

-15 to +15	Decreases(-) or increases (+) the treble sound.
	Rooms with too few sound-absorbing furnishings, especially those with bare floors and walls, may sound overly shrill or "bright." Lowering this setting to a negative value (–1 to –15) decreases the treble sound.
	Rooms with a lot of sound-absorbing furnishings, such as upholstered furniture, wall-to-wall carpet, or heavy drapes, may reduce the treble sound of your system. Moving speakers farther away from soft furnishings increases treble. You can also increase the treble sound by raising this setting to a positive value (+1 to +15).
-15 to +15	Decreases (-) or increases (+) the bass sound.
	Placement of the Acoustimass® module affects the amount of bass you hear. Placing the module closer to the corner of the room will increase the bass. Moving the module away from the corner will decrease the bass.
	You can also decrease the bass sound by lowering this setting to a negative value (-1 to -15). To increase the bass, raise this setting to a positive value ($+1$ to $+15$).

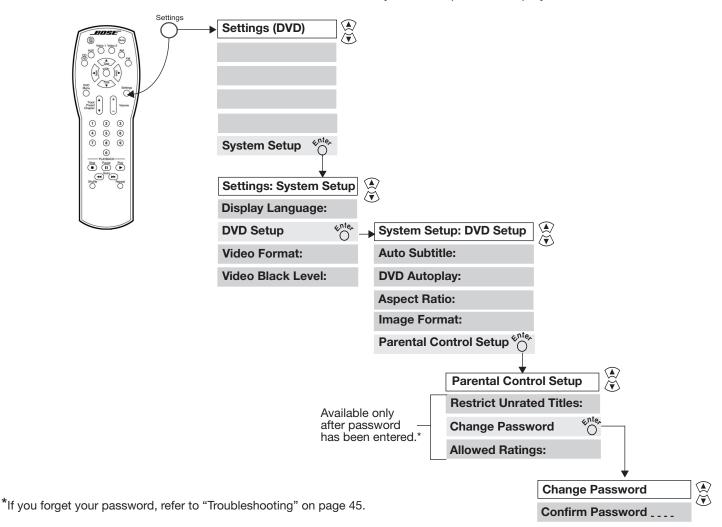
Figure 28

DVD audio status



Locating system settings

- Turn on both the media center and your TV.
- 2. Press the **Settings** button. A menu of the available settings for the current source will be displayed on your TV screen.
- 3. Using the **Tune** ▼ button, scroll down the list and select (highlight) **System Setup**.
- 4. Press the **Enter** button and the System Setup will be displayed.



System Setup menu

The System Setup menu lists options for how to set up the entire system.

Selection:	Setting options:	What the setting affects:
Display Language:	English/French/ Spanish/etc.	Presents on-screen display menus in the selected language.
DVD Setup	selection	Provides a selection of options, including Parental Control, for the DVD.
Video Format:	NTSC PAL	Sets video format to the USA standard. Sets video format to the European standard.
Video Black Level:	Normal Extended	Sets black level required for most TVs. Sets black level that may be appropriate for DVD playback.

DVD Setup submenu

The DVD Setup submenu lists options for how the DVD player should operate, including Parental Control.

Selection:	Setting options:	What the setting affects:
Auto Subtitle:	On Off	Subtitles, if available on a particular DVD, are automatically displayed when the audio is muted. DVD subtitles are not displayed automatically.
DVD Autoplay:	On Off	DVD starts to play automatically when it is loaded. DVD is not started automatically when loaded.
Aspect Ratio:	4:3 16:9	Provides the DVD aspect ratio for standard (4:3) TVs. Provides the DVD aspect ratio for widescreen (16:9) TVs.
Image Format:	Pan & Scan Letterbox	Images are sized to fit a standard TV, if a particular DVD allows it. Images are presented in Letterbox format if a particular DVD allows it (with black bars at the top and bottom of the screen). If Aspect Ratio is 16:9, Image Format is not applicable and the setting is automatically shown as "".
Parental Control Setup	selection	Provides access to the Parental Control submenu.

Taking care of your 3•2•1 or 3•2•1 GS system

Caring for your system may include cleaning the system's enclosures, cleaning your discs, and replacing the remote control batteries.

Cleaning the media center

- Use only a soft, dry cloth to clean the outside surfaces of the media center.
- Do not use any sprays near the system. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.
- Do not allow liquids to spill into any openings.

Cleaning the speakers

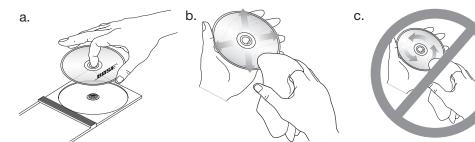
- Clean the surface of your speakers with a soft, damp cloth. You can use an ammonia-free window cleaner on a soft cloth to maintain the finish.
- Do not use any sprays near the speakers. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.
- Do not allow liquids to spill into any openings.
- The speaker grilles require no special care, although you may vacuum them carefully if necessary.

Cleaning discs

- Handle discs by their edges to prevent fingerprints and scratches (Figure 29a).
- To remove stains or fingerprints from the surface of a disc, use a soft and dry lint-free, cloth. Wipe in straight movements from the center of the disc to the outside (Figure 29b). Do not use any chemical products; they can damage the disc.
- Do not use a circular motion to clean (Figure 29c).
- Do not write on or attach labels to the surface of a disc.
- To minimize exposure to dust and dirt, return discs to their cases after use. Store each disc in its case, away from direct sunlight, high temperatures, and humidity.

Figure 29

Disc care



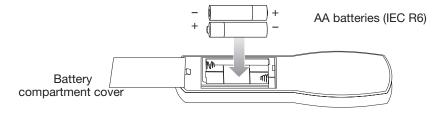
Replacing the remote control batteries

Slide open the battery compartment (Figure 30).

Notice the polarity markings (+ and –) inside the compartment and install the batteries accordingly. Slide the battery compartment cover back into place.

Figure 30

Putting in the batteries



Troubleshooting

Problem	What to do			
System doesn't do anything	 Make sure the unit is turned on. Make sure the power cord is inserted securely into the Acoustimass® module and plugged firmly into an operating AC wall outlet. Be sure to select a source (CD/DVD, AM/FM, etc.). Unplug the Acoustimass module power cord from the outlet for one minute, then reconnect it. This allows the unit to reset itself. After reconnecting the power cord, wait for the message, "BOSE 321" to appear on the media center display. 			
Disc won't eject	 Turn off the unit. Unplug the Acoustimass module power cord from the outlet for one minute, then reconnect it. This allows the unit to reset itself. Unplug the Acoustimass module power cord from the outlet for one minute, then reconnect it. This allows the unit to reset itself. Before powering on, press and hold STOP/EJECT. 			
No sound	 Increase the volume. Check to see if MUTE is lit on the display. If it is, press the Mute button on the remote control to unmute the sound. Make sure the module cable and speaker cable are firmly seated in the media center jacks and the multi-pin connector on the other end is firmly seated in the Acoustimass module jack. Check speaker connections. Turn the media center off for 10 seconds, then on again, to restore communication between the media center and the speakers. Check the connections for any external components. Make sure to select the correct source for the desired input. Be sure the disc is placed correctly, label-side up, in the CD tray. Connect the FM and AM antennas. Unplug the Acoustimass module power cord from the outlet for a minute, then reconnect it. This allows the unit to reset itself. 			
Sound, but no picture	 Make sure the TV is on. When playing a DVD or other video source, make sure the TV is set for TV/Video. See "Make note of the video input jack you use" on page 17. 			
Remote control is inconsistent or does not work	 Check batteries and their polarity (+ and -). See "Replacing the remote control batteries" on page 44. Point the remote control at the media center. 			
Radio does not work or has poor reception	 Make sure antennas are connected properly. Move AM antenna at least 20 inches (50 cm) from the media center. Adjust antenna position to improve reception. AM antenna must be upright. Move antennas farther from TV or other electronic equipment. You may be in an area of weak signal coverage. 			
DVD or CD does not play	 Check to see if the play symbol in the display is lit. After pressing the CD/DVD button, wait a few seconds before pressing Play. Make sure the disc is properly inserted (label side up). Eject the disc and try loading it again. There may be dirt or dust on the disc. Clean the disc. See "Cleaning discs" on page 44. The disc may be defective. Try another disc. Make sure region codes for both the DVD and player match. See "Check for region code compatibility" on page 5. 			

Problem What to do		
FM sound is distorted	Adjust antenna position to reduce interference.	
Sound is distorted	 Make sure speaker cables are not damaged and the connections are secure. Reduce the output level from any external components connected to the music center. 	
Picture is black and white or rolling	 Check the video cable connections. Check the Video Format setting and change to appropriate setting (NTSC or PAL). See "System settings" on page 39. 	
You forgot your password	Enter the password 2673 to access the parental controls and create a new password.	

Customer service

For additional help in solving problems, contact Bose® customer service. Refer to the address list included in the carton.

Warranty

The Bose® 3•2•1 and 3•2•1 GS home entertainment systems are covered by a limited transferable warranty. Details of the warranty are provided on the warranty card that came with your system. Please fill out the information section on the card and mail it to Bose.

Accessories

The Bose 3•2•1 and 3•2•1 GS system shelf speakers are compatible with Bose mounting accessories, including the UB-20 wall brackets, UFS-20 floor stands and UTS-20 table stands. Bose also offers cable adapters for use in running speaker cable through walls.

For further information or to order the advanced remote control, mounting brackets, stands, or cable adapters, contact your Bose dealer. Or, to call Bose directly, refer to the address sheet included with the system.

Technical information

Power rating

USA/Canada: 120VAC, 60 Hz, 300W

Dual voltage: 115/230VAC, 50/60 Hz, 300W

UK/Europe: 230VAC, 50/60 Hz, 300W Australia: 240VAC, 50/60 Hz, 300W Singapore: 220VAC, 50/60 Hz, 300W

Inputs

AUX, VIDEO 1, VIDEO 2: 2VRMS maximum

EXTERNAL ANTENNA: 75 ohm

Outputs

1 audio output

1 video output

Maximum ambient temperature

40°C

Dimensions

Media center:

 $4^{1}/_{8}$ "H x $13^{1}/_{4}$ "W x $10^{1}/_{4}$ "D (10.4 cm x 33.9 cm x 26.0 cm)

Remote control:

 $1^{1}/_{8}$ "H x $2^{1}/_{2}$ "W x $8^{1}/_{16}$ "D (3.0 cm x 6.5 cm x 20.5 cm)

3•2•1 speakers:

 $3^{1}/_{2}$ "H x $7^{7}/_{8}$ "W x $5^{1}/_{4}$ "D (8.7 cm x 19.9 cm x 13.6 cm)

3•2•1 GS speakers:

4"H x 5¹/₂"W x 2¹/₂"D (10.5 cm x 14 cm x 6.4 cm)

Acoustimass® module:

 $14\frac{1}{2}$ "H x $8\frac{3}{4}$ "W x $19\frac{1}{8}$ "D (36.7 cm x 22.2 cm x 48.5 cm)

Weights

Media center: 8.8 lb (4.0 kg)

3•2•1 speakers: 2.7 lb (1.2 kg) each GS speakers: 1 lb (.45 kg) each

Acoustimass module: 23.3 lb (10.6 kg)

Finish

Media center: polymer Speakers: polymer

Acoustimass module: polymer

Setup codes for cable

Códigos de instalación para cable

Codes de configuration pour le câble

		Goodmind	0797
ABC	0002 0008 0014 0007	Grundig	0529
ABC	0003, 0008, 0014, 0007, 0011, 0013, 0017, 0033, 0047	Hamlin	0009, 0020, 0034, 0259, 0273
Ajinvision	1271	Hitachi	0014, 0011, 0033, 0255
Alcatel	0896, 0897	Hwalin	0303
Allegro	0153, 0315	HyperVision	0619
Americast	0899	Hytex	0007
Amstrad	1222	IEEC	1018
Anvision	0111, 0211	Jasco	0015, 0153, 0315
Archer	0153, 0797	Jebsee	0400
BT	0105	Jerrold	0476,0003,0276,0012,
Bell & Howell	0014		0014, 0015, 0011, 0024, 0047, 0098, 0810
Bell South	0899	Kuang Yu	0024
Bestlink	0303	LG	0144, 0040, 0779, 0838
Birmingham Cable		Leon	0015, 0069
Communications	0276	MNet	0019, 0443
British Telecom	0003, 0105	MS	0015, 0069, 0303, 1018
Cable & Wireless	1068	Macab	0817
Cabletime	0271, 0377, 0448, 0665	Macom	0033
Century	0153		
Citizen	0153, 0315	Magnavox Memorex	0032, 0069 0000
Colour Voice	0025, 0031	Motorola	
Comtec	0274	Movie Time	0476, 1106, 0276, 0810 0063, 0078
Comtronics	0040, 0060	Mr. Zap	1112
Contec	0019	NET	0274
Cryptovision	0600	NSC	
Daehan	0778	NTL	0063, 0070
Daeryung	0877, 0008, 0277, 0477,		1068
, 0	1877	Noos	0817
Decsat	0423	Now	0776
Director	0476	Oak	0019, 0007, 0248, 0303
Eastern	0002, 0274, 0418	Ono	1068
Electricord	0078	Optimus	0021
Emerson	0797	PVP Stereo Visual Matrix	0003
Everquest	0015, 0040	Pace	0237, 1060, 1068
Filmnet	0443	Pacific	0678
Focus	0400	Pacific Bell	0843
France Telecom	0451, 0817, 0896, 0897	Panasonic	
Funai	0019, 0248	F an a son inc	0008, 0000, 0107, 0021, 0040
GHZ	0078	Paragon	0000
GMI	0015, 0057, 0069, 0797	Philips	0305, 0317, 0013, 0025,
Galaxi	0008	·	0031,0032,0060,0069,
Garrard	0153		0111, 0153, 0211, 0242, 0255, 0290, 0451, 0619,
Gemini	0015, 0057, 0070, 0242,		0652, 0817
General Instrument	0797 0476, 0003, 0276, 0014,	Pioneer	0877, 0144, 0533, 0023, 1021, 1877
	0015, 0011, 0024, 0098,	Popular Mechanics	0400
0.1401	0810	Pulsar	0000
GoldStar	0144, 0040, 0838	Quasar	0000
Golden AM27-1966 . (00 <u>1</u> V.pdf August 18, 2003	RCA	0021, 0843

RadioShack	0015, 0303, 0315, 0797
Rampage	0255
Recoton	0400
Regal	0020, 0259, 0273, 0279
Regency	0002
Rembrandt	0011, 0070
Runco	0000
SL Marx	0040
Sagem	0817, 1089
Samsung	0144, 0000, 0040, 0070,
J	0702, 0840
Scientific Atlanta	0877, 0008, 0017, 0277, 0477, 1877
SeWoo	0073
Seawoo	0780
Sharp	0313
Signal	0015, 0040
Signature	0011
Sony	1006
Sprucer	0021
Starcom	0003, 0014, 0015, 0047,
	0098
Stargate	0015, 0040, 0797
Starquest	0015
Storm	1018
Supercable	0276
TS	0003, 0024, 0255, 0303, 1018
TV86	0063
Tadiran	0040
Tae Kwang	0068
Taepyung	0678
Taihan	0778
Teac	1018
Tele Danmark	1016
Tele+1	0443
Teleview	0040
Telewest	1068
Thomson	1110
Timeless	0274, 0418
Tocom	0012, 0013
TongKook	0777, 0840
Torx	0003
Toshiba	0000
Trans PX	0276, 0153, 0303, 0315
Tudi	0286
Tusa	0015
UBS	0073
Unika	0153
United Artists	0007
United Cable	0003
Universal	0078, 0153, 0191
Videoway	0250
Viewstar	0060, 0063, 0111, 0211
Visionetics	1064, 1264
Visiopass	0451
•	
AM271966_0	00_V:pat August 18, 2003

	Appen
WisoZenithZentek	0078 0000, 0525, 0899 0400

Setup codes for satellite

Códigos de instalación para satellite

Codes de configuration pour le satellite

Bestar. 0243 ABsat. 0123, 0668, 0832 Birdview. 0045 AGS. 0668, 0710 Blaupunkt. 0173 ASA. 0397 Boca. 0132, 0243, 0589, 0683, 0713, 0794, 0829 ASIT. 0321, 0351 Brain Wave. 0332, 0589, 0683, 0713, 0734, 0829 AstT. 0321, 0351 British Sky Broadcasting. 0847, 1175 Akeal. 0200, 0515 Broco. 0530, 0713 Akeal. 0220, 0515 Broco. 0530, 0713 Akeal. 0421, 0455, 0515, 0519, 0613, 0734 Bub. 0067, 0183 Alba. 0421, 0455, 0515, 0519, 0520, 0734 Chromodoperation of the property of the pr			Best	0217, 0369
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Alba 0421, 0455, 0515, 0519, 0613, 0713, 0734 Bush		•	Broco	0530, 0713
O613, 0713, 0734 CNT				0713
Aldes. 0288, 0519, 0520, 0734 Cambridge 0515, 0683 Allsat. 0067, 0183, 0200, 0364, 0734 Canal Digital 0853 Allsonic. 0288, 0369 Canal Satellite 0853 Alltech 0713 Canal+	Alba			
Allsat 0067, 0183, 0200, 0364, 0734	Aldes	0288, 0519, 0520, 0734		
Allsonic. 0288, 0369 Canal Satellite. 0853 Alltech. 0713 Canal+ 0853 Alpha. 0668 Channel Master. 0018 Alpha. 0668 Chaparral. 0216 Amitronica. 0773 CityCom. 0115, 0394, 0607, 0818, 1176 Ampere. 0368, 0396 Clatronic. 0332 Amstrad. 0080, 0132, 0243, 0252, 0338, 0345, 0396, 0461, 0501, 0713, 0742, 0795, 0847, 1113 Columbia. 0668 Amstrad. 0080, 0132, 0243, 0252, 0338, 0345, 0396, 0461, 0668 Columbia. 0668 Amway. 0043 Columbia. 0668 Anglo. 0713 Columbia. 0668 Ankaro. 0217, 0288, 0369, 0519, 0697 Conifer. 0004 Anttron. 0183, 0421, 0613 Connexions. 0396 Apollo. 0421 Conrad. 0115, 0369, 0589, 0607 Arcon. 0100, 0217, 0332, 0368, 0692, 0834, 1043, 1205 Cosat. 0592 Armstrong. 0243 Crossdigital. 1109 Asat. <t< td=""><td>Allsat</td><td>0067, 0183, 0200, 0364,</td><td></td><td></td></t<>	Allsat	0067, 0183, 0200, 0364,		
Alltech. 0713 Canal+ 0853 Alpha 0668 Channel Master. 0018 AlphaStar. 0772 Chaparral. 0216 Amitronica. 0713 CityCom. 1176, 0394, 0607, 0818, 1176 Ampere. 0368, 0396 Amstrad. 080, 0132, 0243, 0252, 0338, 0345, 0396, 0461, 0501, 0713, 0742, 0795, 0847, 1113 Columbia. 0668 Answay. 0043 Columbia. 0668 Anglo. 0713 Commlink. 0288 Anglo. 0713 Commlink. 0288 Anglo. 0713 Connexions. 0369, 0607 Anttron. 0183, 0421, 0613 Connexions. 0396 Apollo. 0421 Connexions. 0396 Apollo. 0421 Conrad. 0115, 0369, 0589, 0607 Arcon. 0100, 0217, 0332, 0368, 0692, 0834, 1043, 1205 Asat. 0200 Crown. 0243 Arstacom. 0668 Astacom. 0668 Cyrus. 0200 Astacom. 0142, 1129, 1261 D-box. 0723, 0873, 1127 Astra. 0108, 0145, 0243, 0530, 0607 Astro. 0173, 0358, 0369, 0501, 0520, 0548, 0613, 0658 Athena. 0668 Athena. 0668 Athena. 0668 DST. 0421 Atsat. 1300 DX Antenna. 0041, 0752 Avalon. 0364, 0613 Dae Young. 0735 Avalon. 0396 Axiel. 0668 Daewoo. 0713, 1296 Axis. 0369, 0530, 0834 Dansat. 0183		0734	-	
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Pys. 084	Pye	0571	Skymaster	
Guadral O280, 3036, 3039, 1039, 1039, 3039 Skytwin 0519 Quelle 0252, 0607 Skyvision 0364 RCA 0392, 0566, 0855, 0143 Smart 0132 RFT 0200, 0288 Sony	Pyxis	0834	Cl.,	, ,
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Rediffusion. 0004 Starcast. 0042 Redpoint			Star Trak	0421
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Redstar. 0369 Starring. 0332 Roadstar. 0713 Strong. 0132, 0369, 0421, 0520, 0613, 0879, 1105, 1147, 1159, 1300 SAT. 0628, 0713 Sumida. 0243 SEG. 0369, 0421, 0519, 0605, 0742, 1087 Sunny Sound. 0369 SKR. 0713 Sunsat. 0530, 0713 SKY. 0856, 0887 Super Sat. 0679 SL Marx. 0692 Supernova. 0887 SM Electronic. 0157, 0240, 0587, 0713, 1200 TPS. 0820, 1253 STS. 0037, 0041 Tada. 0368 STVI. 0417 Tae Kwang. 0733 STVI. 0417 Tae Kwang. 0733 Stbe. 0183, 0336, 0520, 0690, 0690, 0690, 0690, 0690, 0790, 0794, 0885 Tantec. 0336, 0455 Sagem. 0820, 1114, 1253 TechniSat. 0005, 0501, 0548, 1099, 1100 Salora. 0108, 0172 Techniland. 0592 Samsung. 1109, 0773, 1017, 1243, 1243, 1244, 1276, 1293 Technowelt. 0607 Sat Control.			Starland	1122
Roadstar. 0713 Strong. 0132, 0369, 0421, 0520, 0613, 0879, 1105, 1147, 1159, 1300 SAT. 0321, 0351, 0461, 0501 Sumida. 0243 SEG. 0369, 0421, 0519, 0605, 0742, 1087 Sunny Sound. 0369 SKR. 0713 Sunsat. 0530, 0713 SKR. 0713 Sunstar. 0243, 0369, 0794, 0829 SKY. 0856, 0887 Super Sat. 0679 SL Marx. 0692 Supernova. 0887 SM Electronic. 0157, 0240, 0587, 0713, 1200 TPS. 0820, 1253 STS. 0037, 0041 Tada. 0368 STVI. 0417 Tae Kwang. 0733 Saba. 0183, 0336, 0520, 0690, 0690, 0692, 0710, 0734, 0885 Tantec. 0336, 0455 Sagem. 0820, 1114, 1253 TechniSat. 0005, 0501, 0548, 1099, 1100 Salora. 0108, 0172 Techniland. 0592 Samsung. 1109, 0773, 1017, 1243, 1243, 1244, 1276, 1293 Techniland. 0592 Sart Control. 1300 Telasat. 0605 Sat Pa	•		Starring	0332
Rover 0628, 0713 0613, 0879, 1105, 1147, 1159, 1300 SAT 0321, 0351, 0461, 0501 Sumida 0243 SEG 0369, 0421, 0519, 0605, 0742, 1087 Sunny Sound 0369 SKR 0713 Sunsat 0530, 0713 SKY 0856, 0887 Super Sat 0679 SL Marx 0692 Supernova 0887 SM Electronic 0157, 0240, 0587, 0713, 1200 TPS 0820, 1253 STS 0037, 0041 Tada 0368 STVI 0417 Tae Kwang 0733 Saba 0183, 0336, 0520, 0690, 0690, 0692, 0710, 0734, 0885 Tantec 0336, 0455 Sabre 0455 Tatung 0145, 0455 Sagem 0820, 1114, 1253 TechniSat 0005, 0501, 0548, 1099, 1100 Salora 0108, 0172 Techniland 0592 Samsung 1109, 0773, 1017, 1243, 1243, 1244, 1276, 1293 Technowelt 0607 Sat Control 1300 Telasat 0605 Sat				0132, 0369, 0421, 0520,
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SEG		•	Cumido	•
SKR 0742, 1087 Sunsat 0530, 0713 SKR 0713 Sunstar 0243, 0369, 0794, 0829 SKY 0856, 0887 Super Sat 0679 SL Marx 0692 Supernova 0887 SM Electronic 0157, 0240, 0587, 0713, 1200 TPS 0820, 1253 STS 0037, 0041 Tada 0368 STVI 0417 Tae Kwang 0733 Saba 0183, 0336, 0520, 0690, 0690, 0690, 0692, 0710, 0734, 0885 Tantec 0336, 0455 Sabre 0455 Tatung 0145, 0455 Sagem 0820, 1114, 1253 TechniSat 0005, 0501, 0548, 1099, 1100 Salora 0108, 0172 TechniSat 0592 Samsung 1109, 0773, 1017, 1243, 1243, 1244, 1276, 1293 Technowelt 0607 Sanyo 0493, 1219 Teco 0243 Sat Control 1300 Telasat 0605 Sat Partner 0332, 0335, 0421, 0501, 0520, 0613, 0692, 0734 Teledirekt 0183 Satcom 0605 Telefunken 0421 Teleka 0243, 0396, 0501, 0613, 0613, 0613, 0613, 0620, 0734<				
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SKY. 0856, 0887 Super Sat. 0679 SL Marx. 0692 Supernova. 0887 SM Electronic. 0157, 0240, 0587, 0713, 1200 TPS. 0820, 1253 STS. 0037, 0041 Tada. 0368 STVI. 0417 Tae Kwang. 0733 Saba. 0183, 0336, 0520, 0690, 0692, 0710, 0734, 0885 Tagra. 0364 Sabre. 0455 Tatung. 0145, 0455 Sagem. 0820, 1114, 1253 TechniSat. 0005, 0501, 0548, 1099, 1100 Salora. 0108, 0172 Techniland. 0592 Samsung. 1109, 0773, 1017, 1243, 1243, 1244, 1276, 1293 Technowelt. 0607 Sanyo. 0493, 1219 Teco. 0243 Sat Control. 1300 Telasat. 0605 Sat Team. 0368, 0713 Teleciel. 0613, 0734 SatPartner. 0332, 0335, 0421, 0501, 0520, 0613, 0692, 0734 Teledirekt. 0183 Satcom. 0605 Teleka. 0243, 0396, 0501, 0613, 0613, 0243, 0396, 0501, 0613, 0613, 0000	SKR			*
SL Marx. 0692 Supernova 0887 SM Electronic. 0157,0240,0587,0713, 1200 TPS	SKY	0856, 0887		
SM Electronic. 0157, 0240, 0587, 0713, 1200 TPS. 0820, 1253 STS. 0037, 0041 Tada. 0368 STVI. 0417 Tae Kwang. 0733 Saba. 0183, 0336, 0520, 0690, 0692, 0710, 0734, 0885 Tagra. 0364 Sabre. 0455 Tatung. 0145, 0455 Sagem. 0820, 1114, 1253 TechniSat. 0005, 0501, 0548, 1099, 1100 Salora. 0108, 0172 Technilland. 0592 Samsung. 1109, 0773, 1017, 1243, 1243, 1244, 1276, 1293 Technowelt. 0607 Sanyo. 0493, 1219 Teco. 0243 Sat Control. 1300 Telasat. 0605 Sat Team. 0368, 0713 Teleciel. 0613, 0734 SatPartner. 0332, 0335, 0421, 0501, 0520, 0613, 0692, 0734 Teledirekt. 0183 Satcom. 0605 Teleka. 0243, 0396, 0501, 0613,	SL Marx		•	
STS	SM Electronic	0157, 0240, 0587, 0713,	·	
STVI 0417 Tae Kwang 0733 Saba 0183, 0336, 0520, 0690, 0692, 0710, 0734, 0885 Tagra 0364 Sabre 0455 Tatung 0145, 0455 Sagem 0820, 1114, 1253 TechniSat				
Saba	STS	0037, 0041		
Saba	STVI	0417	_	
Sabre	Saba		-	
Sagem	Cohro			,
Salora			•	,
Samsung 1109,0773, 1017, 1243, 1244, 1276, 1293 Techniland	•		recrimoat	
1244, 1276, 1293 Technowelt			Techniland	0592
Sanyo	Samsung		Technowelt	0607
Sat Control	Sanyo		Teco	0243
Sat Team			Telasat	0605
SatPartner				
0520, 0613, 0692, 0734 Telefunken				
Satcom				
SatecAM271966 00 V.pdf August 18. 2003	Satcom	0605		
	Satec A.M271966	00 ^{183,0713,0834} 00^{183,0713,0834} N.pdf August 18. 2003		0692, 0750

Telemaster	0520
Telesat	0605
Telestar	0114, 0157, 0501, 1100
Televes	0455, 0501, 0734
Televisa	0887
Telewire	0592
Ten Haaft	0692
Thomson	0115, 0265, 0292, 0455, 0607, 0711, 0713, 0853, 1012, 1046, 1291, 1900
Thorn	0455
Tioko	0394
Tonna	0455, 0501, 0592, 0668
Topfield	1206
Toshiba	0749, 0790, 0082, 0137, 0455, 0486, 1749
Triad	0321, 0335, 0351, 0372
Triasat	0501
Triax	0115
Twinner	0136, 0417
UltimateTV	0392, 0639
Uniden	0724, 0722, 0194
Unisat	0200, 0243
Unitor	0217, 0332
Universum	0115, 0173, 0397, 0571, 0607, 0742
VTech	0321, 0351, 0690, 0818
Variosat	0173
Ventana	0200
Vestel	0742
Victor	0492, 0505, 0506
Visiosat	0690
Vortec	0421
Wela	0589, 0713, 0794
Wetekom	0829
Wewa	0455
Winersat	0332, 1045
Wintergarten	0288
Wisi	0004, 0173, 0321, 0351, 0372, 0396, 0406, 0455, 0589, 0638, 0690
Woorisat	0520
Worldsat	0710
XSat	0123, 0668
Xcom Multimedia	0668
Xrypton	0369
Yes	0887
Zaunkonig	0692
Zehnder	0114, 0321, 0331, 0369, 0520, 0742, 0818, 1075
Zenith	0856, 0064, 0245, 0635, 1856
Zeta Technology	0200
Zodiac	0613
Zwergnase	0243, 0794, 0829

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Setup codes for television

Códigos de instalación para TV

Codes de configuration pour la télévision

		Anglo	0264
		Anitech	0282,0009,0037,0068,
A-Mark	0003		0076, 0264, 0474
A.R. Systems	0556	Ansonic	0009, 0037, 0102, 0292,
AGB	0516	Anov Digital	0370, 0428 0748, 0765, 0767, 1943
AOC	0451, 0093, 0180, 0060, 0030, 0178, 0019,	Apex Digital	
	0179,0018, 0003, 0009,		0196, 0399
	0052, 0092, 0108, 0137, 0185, 0474	Arcam	0216, 0217 0003
ASA	0087, 0104	Aristona	0003
AWA	0009, 0157	Asberg	0037, 0336
Abex	0032	Asora	0009
Acura	0009	Asuka	0217, 0218, 0264
Addison	0092, 0108, 0653	Atlantic	0206, 0320
Admiral	0093, 0463, 0087, 0163,	Audinac	0391
/ Communication	0213, 0363	AudioTon	0217, 0264, 0428, 0486
Advent	0761, 0815, 0817, 1933	Audiosonic	0009, 0037, 0109, 0217,
Adventura	0046	Audi0301110	0218, 0264, 0337, 0370,
Adyson	0032, 0068, 0216, 0217		0428, 0486
Agef	0087	Audiovox	0451, 0180, 0003, 0092, 0623
Aiko	0092, 0217, 0264	Autovox	0076, 0087, 0206, 0217,
Aiwa	0701, 0705, 1904, 1910,	Autovox	0247, 0336
A1 ·	1914, 1915, 1916	BPL	0282, 0037
Akai	0030, 0009, 0035, 0037, 0072, 0098, 0163,	BSR	0294
	0191,0208, 0218, 0329,	BTC	0218
	0361, 0371, 0433, 0448, 0480, 0516, 0548, 0556,	Baird	0072, 0073, 0190, 0193, 0208, 0217, 0343
	0581, 0602, 0631, 0672, 0696, 0702, 0708, 0812	Bang & Olufsen	0087, 0275, 0565
Akib	0294	Barco	0380
Akiba	0282, 0037, 0218, 0294,	Basic Line	0282,0009,0037,0217,
A1.:4	0455	_	0218, 0374, 0455, 0567
Akito	0272	Baur	0010,0037,0065,0146, 0303,0349,0361,0505,
Akura	0282, 0009, 0037, 0218, 0264, 0283, 0358, 0412,		0512, 0535, 0554
	0493	Baysonic	0180
Alaron	0179, 0183, 0216	Bazin	0217
Alba	0009, 0036, 0037, 0049, 0163, 0211, 0216, 0218,	Beaumark	0178
	0235, 0247, 0371, 0418, 0487, 0581, 0668	Beko	0037, 0370, 0428, 0486, 0714, 0715
Alfide	0672	Belcor	0019
Allorgan	0206, 0217, 0294	Bell & Howell	0154, 0016
Allstar	0037	Beon	0032, 0037, 0418
Ambassador	0177	Best	0337, 0370, 0421
America Action	0180	Bestar	0037, 0370, 0374
Amplivision	0217, 0320, 0370, 0400	Binatone	0217
Ampro	0751	Blaupunkt	0191, 0195, 0200, 0213,
Amstrad	0009, 0037, 0171, 0177,		0327, 0328, 0535, 0554
	0218, 0264, 0354, 0371, 0412, 0433, 0516, 0581	Blue Sky	0282,0037,0218,0455, 0668,1037
Anam	0250, 0180, 0003, 0004,	Blue Star	0282
	0009, 0068, 0161, 0425, 0426, 0628, 0700	Bondstec	0247
Anam National		Boots	0217, 0272
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Duand	0100 0100 0100 0005	Onnin	0000
Brandt	0109, 0196, 0198, 0205, 0287, 0335, 0399	Conic	
Brinkmann	0037, 0418, 0519	Contec	0808 0180, 0009, 0036, 0157,
Brionvega	0087	001100	0158, 0185, 0216
Britannia	0216, 0217	Continental Edison	0109, 0196, 0198, 0205,
Brockwood	0019	Cosmel	0287, 0399, 0487 0037, 0337
Broksonic	0236, 0463, 0003, 0426, 1905, 1911, 1929, 1935,	Craig	·
	1938	Crezar	
Bruns	0087	Crosley	
Bush	0282, 0007, 0009, 0036,	,	0087, 0213, 0247
	0037, 0208, 0211, 0217, 0218, 0264, 0272, 0294, 0349, 0355, 0361, 0363, 0371, 0374, 0487, 0519, 0581, 0614, 0617, 0668,	Crown	0180, 0039, 0009, 0037, 0076, 0208, 0339, 0370, 0418, 0421, 0486, 0579, 0672
	0698, 1037, 1900	Crown Mustang	0672
CCE	0037, 0217, 0329	Curtis Mathes	0047, 0054, 0154, 0451, 0093, 0060, 0030, 0145,
CGE	0074, 0076, 0084, 0247, 0370, 0418		0056, 0016, 0039, 0166, 0466, 0702, 0747, 1147,
CS Electronics	0216, 0218, 0247		1347, 1919
CTC	0247	Cybertron	0218
CXC	0180	DER	0190, 0193
Candle	0030, 0056, 0046, 0186	Daewoo	0154, 0451, 0180, 0030, 0178, 0019, 0056, 0039,
Canton	0218		0003,0004,0009,0032,
Carad Carena	0610		0037,0066,0091,0092, 0108,0170,0217,0218,
Carena	0037, 0455 0030		0374, 0391, 0402, 0474, 0499, 0623, 0624, 0627,
Carrefour	0036, 0037, 0057		0628, 0634, 0661, 0700,
Carver	0054, 0170	5	1902, 1909, 1921, 1928
Cascade	0009, 0037	Dainichi	0216, 0218
Cathay	0037, 0474	Dansai	0032, 0035, 0036, 0037, 0216
Celebrity	0000	Dantax	0486
Celera	0765	Dayton	0009
Centurion	0037	Daytron	0019, 0374
Century	0087, 0213, 0247	De Graaf	0208, 0227, 0363, 0548
Changhong	0765	Decca	0033,0037,0049,0072, 0217,0272,0516
Ching Tai	0179, 0003, 0009, 0092, 0474	Denko	, , , , , , , , , , , , , , , , , , ,
Chun Yun	0000, 0180, 0179, 0003,	Denon	0145, 0511
	0009, 0033, 0092, 0161, 0474	Denver	0037
Chung Hsin	0180, 0053, 0033, 0036,	Desmet	0009, 0037
Ondrig Florininininini	0108, 0474	Diamant	0037
Cimline	0009, 0218	Digatron	0037
Cinema	0672	Dixi	0004, 0009, 0037
Cineral	0451, 0092	Domland	0394
Citizen	0060, 0030, 0056, 0039, 0046, 0092, 0186, 0280, 0561, 1928, 0561, 1928	Dual	0037, 0057, 0217, 0259, 0303, 0336, 0394, 0519, 0531
City	0009	Dual Tec	0217
Clairtone	0185	Dumont	0017, 0019, 0070, 0087,
Clarion	0180	Dwin	0102, 0213 0720, 0774
Clarivox	0037, 0102	Dynatech	0049
Clatronic	0009, 0037, 0076, 0102, 0217, 0218, 0247, 0320,	ECE	0037
	0370, 0371, 0579	EMI	0005
Clayton	0385	Ectec	0391
Colt	1906	Elbe	0217, 0238, 0259, 0292,
Concerto	0056		0411, 0435, 0516
Condor	0282, 0009, 0037, 0102, 0247, 0320, 0370, 0411, 0320	Electroband	0000, 0185
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Elekta	0264	GE	0047, 0051, 0451, 0180, 0282, 0030, 0178, 0021,
Elin	0009, 0037, 0104, 0349, 0361, 0448, 0548		0055, 0027, 0029, 0092, 0135, 0174, 0279, 0560,
Elite	0218, 0320		0747, 1147, 1347, 1454, 1907, 1917, 1919, 1922
Elman	0102	GEC	0037, 0043, 0072, 0163,
Elta	0009, 0068, 0474	3_3	0205, 0217, 0361, 0516
Emco	0247	GPM	0218
Emerson	0154, 0236, 0463, 0180, 0282, 0178, 0019, 0179,	Galaxi	0037, 0102
	0039, 0037, 0038, 0070,	Galaxis	0037, 0370
	0087, 0158, 0177, 0181, 0182, 0183, 0185, 0213,	Gateway	1755, 1756
	0247, 0280, 0320, 0361,	Geloso	0009, 0213, 0363, 0374
	0371, 0623, 1905, 1909,	General	0186, 0590
Emporor	1911, 1928, 1929 0282	General Technic	0009
Emperor		Genexxa	0009, 0163, 0218, 0493
	0030, 0813	Germanvox	0213
Erres	0012, 0037	Gibralter	0017, 0030, 0019
Ether	0030, 0003, 0009, 0161	Gintai	0354, 0474, 0721
Etron	0009, 0283, 0646	GoldStar	0154, 0030, 0178, 0019,
Euroman	0037, 0264, 0421		0056, 0039, 0001, 0002,
Europa	0037		0032,0037,0106,0109, 0163,0216,0217,0247,
Europhon	0102, 0213, 0217, 0516		0283, 0290, 0308, 0361,
Expert	0206		0363, 0377, 0409, 0457, 0467
Exquisit	0037	Goldline	0337
FNR	0102	Goldstar	1926
Fenner	0009, 0374	Gooding	0487
Ferguson	0005, 0037, 0073, 0109, 0190, 0192, 0193, 0238,	Goodmans	0179,0009,0032,0035,
	0287, 0335, 0343, 0560,	addurnans	0036, 0037, 0072, 0217,
	0625		0218, 0235, 0264, 0335, 0343, 0360, 0371, 0374,
Fidelity	0082, 0163, 0193, 0216, 0264, 0361, 0363, 0371,		0480, 0487, 0499, 0516,
	0412, 0474, 0512		0560, 0624, 0634, 1900, 1909
Filsai	0217	Gorenje	0370, 0421
Finlandia	0072, 0163, 0208, 0346,	Gradiente	0053, 0056, 0170, 0392
	0363, 0548	Graetz	0163, 0361
Finlux	0179, 0037, 0070, 0072, 0087, 0102, 0104, 0105,	Granada	0037, 0045, 0072, 0108,
	0217, 0346, 0411, 0516	Granada	0146, 0208, 0217, 0226,
Firstar	0236, 0009, 0033		0339, 0356, 0363, 0473, 0502, 0516
Firstline	0009, 0037, 0072, 0216,	Grandin	0282.0009.0037.0163.
	0217, 0238, 0247, 0294,	Grandin	0320, 0374, 0455, 0579,
	0374, 0385, 0411, 0531, 0668		0610
Fisher	0047, 0154, 0036, 0045,	Grundig	0009, 0037, 0070, 0076, 0191, 0195, 0205, 0487,
	0072, 0087, 0104, 0157,		0535, 0554, 0556, 0587,
	0159, 0208, 0217, 0303, 0370		0672, 0706, 1935
Flint	0037, 0072, 0218, 0264,	Grunpy	0180, 0179
	0455, 0610	HCM	0282,0009,0037,0217,
Forgestone	0193	1.15.45.7	0218, 0264, 0412, 0418
Formenti	0037, 0065, 0087, 0213,	HMV	0087
Fastures	0216, 0320	Haier	0768
Fortress	0093	Halifax	0217
Fraba	0037, 0370	Hallmark	0178
Friac	0009, 0102, 0370, 0499	Hampton	0216, 0217
Frontech	0009, 0163, 0217, 0247, 0264, 0363, 0448, 0474	Hanimex	0294, 1908
Fujitsu	0179, 0072, 0102, 0186,	Hankook	0180,0030,0178,0019, 0056,0409,0628
. j	0206, 0217, 0683, 0809	Hanseatic	0282,0009,0037,0217,
Funai	0180, 0179, 0171, 0264,		0320, 0361, 0377, 0394,
F	0294, 0303, 0342, 1904	Hantana	0428, 0519, 0556, 0661
Futuretech	0180	Hantarex	0037, 0213, 0516
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Harlay Davidson	0170 0042 1004	IT) /	0007 0064
Harley Davidson Harman/Kardon	0179, 0043, 1904	ITVIberia	0037, 0264 0037
Harvard	0054, 0078 0180, 0068	Imperial	0074, 0076, 0084, 0247,
Harwood	0009, 0032, 0037, 0412	ппрепаі	0370, 0418
Havermy	0093	Indesit	0213
Hello Kitty	0451	Indiana	0037
Hema	0009, 0217	Infinity	0054
Hifivox	0196, 0198, 0399	Ingelen	0163
Hikona	0218, 0474	Ingersol	0009
Hinari	0179, 0039, 0009, 0036,	Inkel	0571
	0037, 0211, 0218, 0235, 0283, 0355, 0487, 1908	Inno Hit	0009, 0072, 0217, 0290, 0516
Hisawa	0282, 0218, 0400, 0455,	Innova	0037
Hit	0610 0087	Inteq	0017
Hitachi	0165, 0030, 0178, 0145,	Interbuy	0037, 0068, 0264
T III.	0019, 0179, 0056, 0016, 0039, 0009, 0027, 0032,	Interfunk	0012,0037,0087,0163, 0247,0275,0327,0361, 0512
	0036, 0037, 0038, 0043,	Internal	0037
	0044, 0072, 0092, 0095,	Intervision	0282,0037,0068,0102,
	0097, 0105, 0109, 0151, 0157, 0163, 0182, 0186,		0217, 0218, 0247, 0264, 0377, 0394, 0448, 0455,
	0194, 0196, 0198, 0213,		0486, 0487, 0519
	0217, 0225, 0227, 0279,	Irradio	0218, 0247, 0290, 0371
	0349, 0356, 0363, 0381,	Isukai	0282, 0037, 0218, 0455
	0409, 0413, 0473, 0474, 0481, 0492, 0499, 0516,	JBL	0054
	0548, 0576, 0577, 0578,	JCB	0000
	0583, 0719, 0744, 1045,	JEC	0502
Hornynhono	1225, 1256, 1904 0037	JVC	0463, 0053, 0036, 0069, 0094, 0160, 0169, 0182,
Hornyphone Hua Tun	0009		0190, 0192, 0193, 0218,
Huanyu	0216, 0374		0371, 0418, 0606, 0653, 0683, 1923
Hyper	0009, 0216, 0217, 0247	Janeil	0046
Hypersonic	0361	Jean	0156, 0051, 0236, 0179,
Hypson	0282, 0037, 0264, 0400, 0455	Leave	0003,0009,0092,0474, 0721
ICE	0216, 0217, 0218, 0264,	Jensen	0761, 0815, 0817, 1933
	0371, 0556	KB Aristocrat	0163
ICeS	0216, 0218	KMC	0180 0106
IR	0093, 0007, 0010, 0011, 0012, 0032, 0033, 0035,	KTV	0180, 0030, 0039, 0183,
	0036, 0037, 0043, 0045,		0185, 0217, 0280
	0070, 0072, 0073, 0074, 0076, 0087, 0101, 0102,	Kaisui	0282,0009,0037,0216, 0217,0218,0455
	0104, 0105, 0108, 0109,	Kamp	0216
	0146, 0157, 0163, 0190, 0191, 0192, 0193, 0194,	Kapsch	0104, 0163, 0206, 0361
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	0213, 0216, 0217, 0225,	Kasui	0282
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	0505, 0512, 0516, 0535,	Kennedy Kenwood	0206, 0213, 0435
	0553, 0554, 0556	Kingsley	0030, 0019 0216
IRT	0628	Kioto	0706
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ITT	0179, 0007, 0163, 0208, 0283, 0339, 0346, 0349,	Kneissel	0037, 0238, 0259, 0292,
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Kolin	0180, 0053, 0033, 0036, 0108, 0474	Majestic	0016, 0015
Kolster	0037	Manesth	0035, 0037, 0217, 0235, 0264, 0294, 0320
Konka		Marantz	0054, 0030, 0037, 0556
	0638, 0703, 0707, 0725, 0726, 1939, 1940	Marelli	0087
Kornol	0037	Mark	0037
Korpel		Maruman	0391, 0627
Korting	0087, 0320, 0421	Matsui	0009, 0011, 0033, 0035,
Kosmos	0037		0036, 0037, 0072, 0163,
Koyoda	0009		0177, 0191, 0195, 0208, 0211, 0217, 0235, 0272,
Kraking	0238		0294, 0335, 0354, 0355,
Kuba Electronic	0303		0363, 0371, 0433, 0443, 0455, 0487, 0516, 0579
Kyoshu	0032, 0412	Matsushita	0250, 0161, 0650
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LG	0060, 0030, 0178, 0019, 0056, 0001, 0003, 0004,	Medion	0037, 0668, 0808, 1037
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	0409, 0442, 0474, 0644, 0700, 0714, 1934	Megatron	0178, 0145, 0003
LXI	0047, 0054, 0154, 0156,	Melvox	0400
	0178, 0148, 0747	Memorex	0154, 0250, 0463, 0150,
LaSAT	0486		0178, 0179, 0056, 0016,
Lenco	0104		0009, 0106, 1037, 1911, 1920, 1924, 1926, 1927
Leyco	0037, 0072, 0264, 0294, 0579	Memphis	0337, 0385
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Lifetec	0037, 0218, 0374, 0519		0367, 0388, 0447, 0535, 0554, 0746
Lloyd's	1904	Micromaxx	0808
Lloytron	0032	Microstar	0808
Loewe	0037, 0087, 0136, 0292,	Midland	0047,0017,0051,0039,
	0512, 0633, 0694		0032, 0135, 0747
Logik	0016, 0001, 0005, 0011, 0033, 0193	Minerva	0070, 0487, 0535, 0554
Luma	0206, 0259, 0363	Minoka	0412
Lumatron	0217	Minutz Mirror	0021 1900
Luxman	0056	Mitsubishi	0154, 0250, 0093, 0236,
Luxor	0163, 0194, 0208, 0290,	WIIISUDISIII	0180, 0150, 0030, 0178,
	0349, 0356, 0361, 0363, 0548		0019, 0179, 0056, 0007, 0014, 0033, 0036, 0037,
M Electronic	0009, 0037, 0057, 0068,		0087, 0098, 0108, 0155,
W LICOTIONIO	0104, 0105, 0109, 0163,		0331, 0354, 0358, 0381, 0474, 0512, 0535, 1917
	0216, 0217, 0247, 0287, 0346, 0374, 0411, 0480,	Mivar	0216, 0290, 0291, 0292,
	0492, 0512	14114 641	0516, 0609
MEI	0185	Monaco	0009
MGA	0150, 0030, 0178, 0019,	Motion	0076
MTC	0155, 1907	Motorola	0093, 0055
WT C	0060, 0030, 0019, 0056, 0049, 0091, 0185, 0216,	Multibroadcast	0193
	0349, 0370, 0512	Multitech	0180,0009,0049,0076,
MTEC	0032, 0272		0102,0216,0217,0247, 0363,0486
Magnadyne	0087, 0102, 0247, 0516	Murphy	0039, 0072, 0163, 0216,
Magnafon	0073, 0076, 0102, 0213, 0216, 0516	Myryad	0474 0556
Magnasonic	1913, 1928	NAD	0156, 0178, 0361, 0866
Magnavox	0054, 0030, 0179, 0020,	NEC	0154, 0156, 0051, 0165,
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	1254, 1454, 1904, 1913,		0009, 0036, 0046, 0170, 0186, 0320, 0381, 0455,
Magnin	1931		0474, 0497, 0704, 1704
Magnin	1907 0037 0648	NEI	0037, 0337, 0371
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Naiko	0606	Otto Versand	0093,0010,0036,0037, 0109,0191,0213,0217,
Nakimura	0037, 0374		0226, 0235, 0247, 0294,
Nakio	0480		0303, 0320, 0343, 0349, 0361, 0505, 0512, 0535,
Naonis	0363		0554, 0556
National	0226	Pael	0216
Neckermann	0037, 0087, 0191, 0213, 0247, 0320, 0327, 0349,	Palladium	0363, 0370, 0411, 0418
	0363, 0370, 0411, 0418,	Panama	0217, 0247, 0264
	0505, 0554, 0556	Panasonic	0054, 0250, 0051, 0055,
Nesco	0179, 0247		0037, 0126, 0161, 0163, 0213, 0214, 0226, 0274,
Netsat	0037		0338, 0340, 0361, 0367,
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Neufunk	0037, 0556		1941, 1946, 1947
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Nicamagic	0216	Pathe Marconi	0196, 0198, 0205, 0399
Nikkai	0009, 0032, 0035, 0036,	Pausa	0009
	0037, 0072, 0216, 0217, 0218, 0264, 0337	Penney	0047, 0156, 0051, 0060,
Nikko	0030, 0178, 0092	•	0030, 0178, 0021, 0019, 0018, 0039, 0002, 0003,
Nisato	0391		0027, 0032, 0110, 0135,
Noblex	0430		0149, 0747, 1347, 1907, 1919, 1926
Nobliko	0070, 0076, 0102, 0216	Perdio	0037, 0163, 0320
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Nokia	0179, 0163, 0208, 0320,	Philco	0054, 0463, 0180, 0030,
	0339, 0346, 0349, 0361, 0374, 0473, 0480, 0548,		0178, 0145, 0019, 0056,
	0567, 0606, 0610, 0631,		0020, 0028, 0032, 0037, 0074, 0076, 0084, 0087,
	1912		0096, 0186, 0213, 0247,
Norcent	0748, 0824		0278, 0370, 0409, 0418, 0474, 0628, 0747, 1911
Nordmende	0109, 0195, 0196, 0198, 0213, 0287, 0343, 0399,	Philips	0054,0000,0051,0030,
	0560	•	0178, 0019, 0056, 0007,
Noshi	0018		0012, 0020, 0024, 0028, 0032, 0037, 0043, 0087,
Novak	0012		0092, 0108, 0186, 0187, 0193, 0278, 0332, 0343,
Novatronic	0037, 0105, 0531		0374, 0409, 0423, 0474,
Oceanic	0163, 0208, 0361, 0548, 0567		0554, 0556, 0595, 0721,0747, 1454
Okano	0009, 0037, 0264, 0370	Phoenix	0087, 0216, 0320, 0385,
Omega	0264		0486
On Command	0531	Phonola	0012,0037,0087,0193, 0216
Onking	0280	Pilot	0030, 0019, 0039
Onwa	0180, 0102, 0218, 0371,	Pioneer	0037, 0038, 0109, 0163,
Ontinue	0433, 0581		0166, 0172, 0287, 0361,
Optimus	0154, 0250, 0166, 0650, 1913, 1924, 1927		0423, 0428, 0486, 0679, 0760, 0866
Optonica	0093, 0165	Plantron	0009
Orion	0236, 0463, 0179, 0037,	Playsonic	0217
	0177, 0211, 0235, 0294, 0320, 0355, 0443, 0474, 0516, 0531, 0655, 1905,	Polytron	0697
		Portland	0019, 0039, 0092, 0374
0.11	1911, 1929	Prandoni-Prince	0213, 0361, 0363, 0516
Orline	0037, 0218	Precision	0217
Ormond	0385 0516	Prima	0068,0264,0474,0761,
Orsowe		Dringston	0815, 0817, 1933
Osaki	0032, 0037, 0072, 0217, 0218, 0264, 0272, 0355,	Princeton	0700, 0717
	0374, 0412, 0474, 0493	Prism	0194 0051
Osio	0037	Profex	0009, 0076, 0163, 0361,
Oso	0218		0363
Osume		Profi	0009
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Proline	0072	SEI	0010, 0087, 0102, 0177,
Proscan	0047, 0747, 1922	051.0:	0206, 0213, 0294, 0516
Prosonic	0037, 0579	SEI-Sinudyne	0037, 0213
Protech	0009, 0037, 0102, 0217,	SKY	0037
	0247, 0264, 0337, 0418, 0668	SSS	0180, 0019
Proton	0030, 0178, 0039, 0001, 0003, 0009, 0031, 0052, 0149, 0466, 0474, 0644	Saba	0087, 0109, 0163, 0196, 0198, 0205, 0213, 0287, 0335, 0343, 0361, 0399, 0498, 0516, 0548, 0560, 0625
Pulsar	0017, 0019	Saccs	0238
Pye	0007, 0012, 0037, 0087, 0554, 0556	Sagem	0455, 0610
Quasar	0250, 0051, 0165, 0055,	Saisho	0009, 0011, 0033, 0177,
	0247, 0474, 0650, 1919, 1924		0211, 0217, 0235, 0264, 0354, 0516
Quelle	0010, 0011, 0037, 0070, 0074, 0084, 0104, 0200, 0213, 0327, 0328, 0361, 0505, 0512, 0535, 0554	Salora	0163, 0194, 0290, 0349, 0356, 0361, 0363, 0516, 0548
Questa	0032, 0036	Sambers	0076, 0102, 0213, 0516
Questar	0032	Sampo	0154, 1755, 0093, 0030, 0178, 0039, 0009, 0032,
R-Line			0036, 0052, 0092, 0110,
RBM	0070		0171, 0474, 0650, 0700, 0721
RCA		Samsung	0154,0060,0030,0178,
	0019, 0018, 0029, 0038, 0090, 0092, 0135, 0174, 0278, 0679, 0747, 1047, 1147, 1247, 1347, 1447, 1454, 1547, 1907, 1917, 1919, 1922, 1948	our loang	0019, 0179, 0056, 0039, 0009, 0032, 0037, 0072, 0090, 0092, 0110, 0208, 0216, 0217, 0264, 0278, 0290, 0329, 0370, 0409, 0427, 0448, 0474, 0482, 0519, 0556, 0587, 0618,
RFT	0072, 0087, 0428		0644, 0702, 0747, 0766,
RTF	0087		0812, 1903
Radialva	0037, 0218, 0337	Samsux	0039
RadioShack	0047, 0154, 0165, 0180,	Sandra	0216, 0217
	0030, 0178, 0019, 0056, 0039, 0032, 0037, 0409,	Sansei	0451
	0747, 1904, 1920	Sansui	0463, 0037, 0655, 0706,
Radiola	0012, 0037, 0217	0	1904, 1911, 1929
Radiomarelli	0037, 0087, 0247, 0516	Sanyo	0154, 0180, 0011, 0036, 0045, 0068, 0072, 0088,
Radiotone	0009, 0037, 0264, 0428, 0579		0104, 0107, 0108, 0146, 0157, 0159, 0208, 0213, 0216, 0217, 0232, 0280,
Rank Arena			0339, 0370, 0376, 0381,
Realistic	0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039, 0032	0	0424, 0474, 0484, 0799, 1907
Recor	0037	Sanyong	0032
Rediffusion	0361, 0548	Schaub Lorenz	0361
Redstar	0037	Schneider	0012,0037,0057,0217, 0218,0247,0259,0303,
Reflex	0037		0336, 0361, 0371, 0394,
Reoc	0714		0519, 0556, 0668, 1137, 1904
Revox	0037	Scimitsu	0019
Rex	0163, 0206, 0259, 0264,	Scotch	0178
	0363, 0411	Scotland	0163
Rhapsody	0183, 0185, 0216	Scott	0236, 0180, 0178, 0019,
Roadstar	0009, 0037, 0218, 0264,		0179
<b>5</b>	0418	Sears	0047, 0054, 0154, 0156,
Robotron	0087		0178, 0179, 0056, 0015, 0146, 0148, 0149, 0159,
Rowa	0698, 0712		0171, 0747, 1904, 1926
Roxy	0448	Seleco	0163, 0206, 0259, 0363,
Royal Lux	0412		0411
Runco	0017, 0030, 0497, 0603	Semivox	0180
SBR	0007, 0012, 0037, 0043, 0193	Semp	0156
SEG		Sencora	0009
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Serino	0216, 0455, 0610	SuperTech	0009, 0037, 0216
Sharp	0093, 0165, 0030, 0039,	Superla	0516
	0032, 0036, 0153, 0157, 0220, 0256, 0294, 0386,	Supra	0056, 0039, 0009
	0409, 0474, 0491, 0516,	Supre-Macy	0046
	0589, 0650, 0688, 0689, 0787, 0818, 1093, 1193,	Supreme	0000
	1917	Susumu	0218, 0474
Shen Ying	0179, 0003, 0009, 0092, 0474	Sylvania	0054,0030,0020,0028, 0065,0096,0171,0186, 0381,1931,1944
Sheng Chia	0093, 0236, 0179, 0009, 0033, 0474	Symphonic	
Shintoshi	0037	, .	0180, 0171, 1904, 1913
Shogun	0019	Synco	0000, 0451, 0093, 0060, 0178, 0036, 0092, 0474
Shorai	0179, 0294	Sysline	0037
Siarem	0087, 0102, 0213, 0516	Sytong	0216
Siemens	0032, 0037, 0146, 0157,	T + A	0447
Sierrieris	0191, 0195, 0200, 0213,	TCM	0808
	0327, 0328, 0535, 0554	TMK	0178, 0056, 0177
Signature	0016	TNCi	0017
Silva	0216	TVS	0463
Silver	0179, 0036, 0361	TVTEXT 95	0556
Simpson	0186, 0187	Tacico	0178, 0179, 0009, 0092,
Singer	0087, 0102		0474
Sinu	0102	Tactus	0272
Sinudyne	0010, 0087, 0102, 0177,	Tai Yi	0009
	0206, 0213, 0235, 0294, 0516	Tandberg	0367
Skantic	0356	Tandy	0093, 0039, 0072, 0163,
Skygiant	0180		0217, 0218
Skysonic	0696	Tashiko	0032, 0033, 0036, 0043, 0092, 0146, 0163, 0216,
Skyworth	0037		0217, 0363, 0650, 0721
Solavox	0032, 0072, 0163, 0361,	Tatung	0054, 0154, 0156, 0051, 0060, 0055, 0003, 0009,
Sonitron	0548 0208, 0339, 0370		0011,0036,0037,0049, 0072,0217,0272,0338,
Sonoko	0282, 0009, 0037		0396, 0474, 0516, 0553,
Sonolor	0163, 0208, 0361, 0567		0621
Sontec	0009, 0037, 0294, 0370	Teac	0282,0009,0037,0264, 0412,0418,0455,0624,
Sony	0000, 0010, 0011, 0036, 0080, 0102, 0111, 0505,		0668, 0698, 0706, 0712, 0721, 1037, 1437, 1904,
	0650, 0651, 1010, 1505, 1651, 1904, 1925	Tec	1909, 1913, 1932, 1949 0009, 0217, 0247, 0259,
Sound & Vision	0102, 0374	100	0337, 0471, 0474
Soundesign	0180, 0178, 0179, 0186	Technema	0320
Soundwave	0037, 0320, 0418	Technics	0250, 0051, 0650
Sowa	0156, 0051, 0060, 0178,	Technol Ace	0179
	0036, 0092, 0226, 0338,	Technovox	0007
	0474	Techwood	0051, 0056, 0003
Spectricon	0003, 0137	Teco	0051,0093,0178,0009,
Squareview	0171		0036, 0068, 0092, 0218, 0264, 0280, 0474, 0653
Ssangyong	0009, 0032	Teknika	0054, 0180, 0150, 0060,
Stag	0032	Toruma	0019, 0179, 0056, 0016,
Standard	0009, 0037, 0217, 0218, 0320, 0374	Talanda	0039, 0092, 0186
Starlite	0180	Teleavia	0196, 0205, 0343, 0399
Stenway	0282, 0218	Telefunken	0056, 0005, 0037, 0073, 0074, 0084, 0101, 0109,
Stern	0163, 0206, 0259, 0264, 0363, 0411		0196, 0213, 0262, 0335, 0343, 0471, 0486, 0498,
Strato	0037, 0264	Tologozi	0566, 0625, 0702
Stylandia	0217	Telegazi	0037
Sunkai	0294, 0355, 0455, 0610	Telemeister	0037, 0320
Sunstar	0009. 0037. 0371	Telesonic	0037
Sunwood M271966_0	00 ₀ <del>y</del> , pdf August 18, 2003	Telestar	0037, 0579

Teletech	0000 0027 0227	Vector Research	0030
Teleton	0009, 0037, 0337 0036, 0186, 0206, 0217,	Vestel	0037, 0217
Teletori	0259, 0349, 0363	Vibrant	0037, 0217
Televideon	0216, 0320	Victor	0250, 0053, 0036, 0160,
Temco	0294	VICTOR	0376, 0650, 0653
Tennessee	0037	Video Concepts	0098
Tensai	0009, 0037, 0104, 0105,	Videologic	0216, 0218
	0217, 0218, 0247, 0294, 0320, 0371, 0374, 0377	Videosat	0247
Tenson	0320, 0371, 0374, 0377	Videotechnic	0217, 0320
Tera	0030, 0031, 0149, 0466,	Videoton	0356
1014	0474	Vidikron	0054, 0242
Texet	0009, 0216, 0218, 0374	Vidtech	0178, 0019, 0036
Thomas	1904	ViewSonic	1755
Thomson	0037, 0109, 0196, 0198,	Viking	0046
	0205, 0287, 0335, 0343, 0349, 0399, 0471, 0560,	Vision	0217, 0320
	0625, 1447	Vistar	0206
Thorn	0005, 0035, 0037, 0072,	Voxson	0087, 0163, 0363, 0418
	0073, 0074, 0084, 0104, 0190, 0192, 0193, 0238,	Waltham	0037, 0109, 0217, 0356,
	0272, 0278, 0335, 0343,	NA/avala	0385, 0418
	0361, 0374, 0499, 0505, 0512, 0535, 0553	Wards	0054, 0165, 0030, 0178, 0021, 0019, 0179, 0056,
Thorn-Ferguson	0343		0016, 0020, 0027, 0028,
Tokai	0009, 0037, 0163, 0337,		0029, 0080, 0096, 0111, 0174, 0866
	0448	Watson	0009, 0037, 0213, 0218,
Tokyo	0035, 0329, 0448		0320, 0394, 0519, 0579
Tomashi	0282	Watt Radio	0102, 0213, 0216
Toshiba	0154, 0156, 0060, 0035,	Waycon	0156
	0036, 0070, 0102, 0109, 0149, 0161, 0243, 0381,	Wega	0036, 0037, 0087
	0502, 0508, 0509, 0553, 0618, 0644, 0650, 0718,	Wegavox	0009
	1256, 1508, 1704, 1918,	Weltblick	0320
	1935, 1936, 1945	White Westinghouse	0463, 0037, 0186, 0216, 0320, 0337, 0623, 1909
Tosonic	0185	Windstar	0282
Totevision	0039	Xrypton	0037
Trans Continens	0217	Yamaha	0030, 0019, 0769
Transonic	0698, 0712	Yamishi	0282, 0217, 0455
Trical	0157	Yapshe	0250
Trident	0516	Yokan	0037
Tristar	0193, 0218	Yoko	0009, 0037, 0217, 0218,
Triumph	0177, 0243, 0346, 0516, 0556		0264, 0339, 0421
Tsoschi	0282	Zanussi	0206, 0217, 0363
Tuntex	0030, 0009, 0092, 0474	Zenith	0017, 0463, 0178, 0016,
Uher	0037, 0206, 0303, 0320,		0092, 0624, 1904, 1909, 1911, 1929
	0374, 0418, 0486	Zenor	0339
Ultra	0192, 0391	Zonda	0003
Ultravox	0037, 0087, 0102, 0213, 0216, 0247		
Unic Line	0037, 0473		
United	0037		
Universal	0027		
Universum	0009, 0010, 0011, 0032, 0036, 0037, 0070, 0074, 0076, 0104, 0105, 0146, 0157, 0170, 0177, 0213, 0217, 0247, 0264, 0290, 0294, 0327, 0337, 0346, 0361, 0370, 0411, 0418, 0421, 0474, 0480, 0492, 0505, 0512, 0535, 0554, 1901		
Univov	0027 0007 0162 0220		

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